Oil, Paint and Drug Reporter

The Chemical Market Authority Since 1871

Volume 151 No. 9 March 3, 1947

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Typical Reactions:

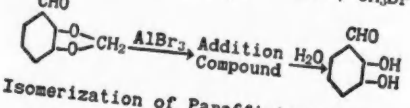
Catalyst for:

Introduction of Carbonyl Group

$$C_6H_6 + CO + HBr \xrightarrow{AlBr_3 + Cu} C_6H_5CHO + HBr$$

Demethylating

$$ROCH_3 \xrightarrow{AlBr_3} \underset{\text{Compound}}{\text{Addition}} \xrightarrow{H_2O} ROH + CH_3Br + HOAlBr_2$$



Isomerization of Paraffinic Hydrocarbons

$$CH_3CH_2CH_2CH_3 \xrightarrow{AlBr_3} (CH_3)_2CHCH_3$$

Alkylation of Hydrocarbons

$$C_6H_6 + C_nH_{2n} \xrightarrow{AlBr_3} C_6H_5C_nH_{2n+1}$$

Cracking of Hydrocarbons

$$CH_3(CH_2)_4CH_3 \xrightarrow[HBr]{AlBr_3} (CH_3)_2CHCH_3 + (CH_3)_2CHCH_2CH_3$$

Bromination of Hydrocarbons

$$C_6H_6 + 6Br_2 \xrightarrow{AlBr_3} C_6Br_6 + 6HBr$$

Alkyl-Aryl Syntheses

$$C_6H_6 + RBr \xrightarrow{AlBr_3} C_6H_5R + HBr$$

Preparation of Aryl Methanes

$$3C_6H_6 + CHCl_3 \xrightarrow{AlBr_3} (C_6H_5)_3CH + 3HCl$$

Synthesis of Ketones

$$C_6H_6 + C_6H_5COCl \xrightarrow{AlBr_3} (C_6H_5)_2CO + HCl$$

Synthesis of Anthraquinone
Polymerization of Unsaturated Hydrocarbons
Synthesis of Amines and Aryl Alcohols
Molecular Rearrangements
Replacement of Aluminum Chloride in many other specific reactions.

Properties:

Formula	$AlBr_3$
Molecular Weight	266.72
Specific Gravity at 99.5/4°C	2.754
Freezing Point, °C	97.5
Boiling Point, °C	268

Solubility in most organic liquids considerably greater than that of Aluminum Chloride.

Typical Composition Range:

Aluminum Bromide, wt. %	98 min.
Freezing Point, °C	95 min.
Fe, wt. %	0.005 max.

Many other specific reactions are reported in our Technical Bulletin No. 205, a copy of which will be sent without obligation. Address inquiry to: Technical Sales Division

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Oil, Paint and Drug Reporter

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Drug Freight Rates Hearings to Be Held

OPD Washington Bureau

The proposal of the Classification Board of the Class I railroads to change the present method of imposing freight rates on drugs, pharmaceuticals and certain chemicals from a commodity basis to a valuation basis will be held in Buffalo, N. Y., April 14, according to information received by the Association of American Railroads.

The hearing will follow a hearing to be held in March in Chicago. The Chicago hearing will be on the recommendations of the board that this change in the method of computing freight charges be made, while the Buffalo hearing will be on the rates that would be imposed if the new classification is adopted.

Among the commodities specifically named in the proposal in addition to drugs, pharmaceuticals and chemicals generally are perfumes, toilet powders, toilet preparations, camphor oil, essential oils, and fish liver oils.

A.D.M.A. Names Bambac Assistant to Frailey

OPD Washington Bureau

Dr. Karl Bambach has been appointed assistant to Carson P. Frailey, executive vice-president of the American Drug Manufacturers' Association.

Following his graduation from the college of medicine of the University of Cincinnati, Dr. Bambach was with the William S. Merrill Company, Cincinnati, for five years, and for the next five years was on the research staff of the Kettering Laboratory of Applied Physiology of the University of Cincinnati.

During the war he was in charge of the drugs and chemicals section, service of supply, Office of the Surgeon General of the War Department, and served as liaison officer with the Food and Drug Administration, Bureau of Narcotics, National Institute of Health and the National Research Council.

Drug Makers Sugar Quota Unchanged in '47

OPD Washington Bureau

The easing of the sugar supply situation this year will not be reflected in any increase in the amount of sugar to be allotted for pharmaceutical manufacture, according to a joint announcement of the Department of Agriculture and the Office of Price Administration.

The two agencies said last week that while industrial users such as bakers, soft drink bottlers and candy makers will have their rations increased April 1 from 60 to 75 percent of their base, no change is planned in the allotments to pharmaceutical manufacturers. These allowances are already at 120 percent of base period use.

German Patents Accord Effective

OPD Washington Bureau

The State Department issued a reminder February 27 that the international agreement on the use of more than 100,000 German-owned patents is now effective. Its general effect will be to make available to citizens of all participating governments full rights to use, without paying royalties, all former German patents issued by those governments.

Southern Drug Clubs Set Dates of Meetings

The South Atlantic Drug Club and the Southern Drug Club have set dates for their annual spring meetings. The South Atlantic group will meet at the Piedmont hotel, Atlanta, May 5-6, and the Southern club at the Edgewater Gulf hotel, Edgewater Park, Miss., May 8-9.

Streptomycin Pretest Favorably Reported

The house interstate and foreign commerce committee favorably reported the streptomycin bill of the Food and Drug Administration last week and placed the measure on the calendar for house passage.

The bill (H.R. 2045) amends the Food, Drug and Cosmetic Act to provide for the pretesting of streptomycin in the same manner that penicillin is certified before it can enter trade channels. The committee made no changes in the measure from the form in which it was introduced.

Tin Reserve Stocks Exhaustion Seen

Even with the continuation of use controls, it is estimated that the government's reserve stocks of tin, exclusive of those held for emergency stockpiling, will be exhausted by the end of 1947, the Civilian Production Administration forecast last week in a report on the tin situation.

Since the 1947 allocations have not yet been made by the Combined Tin Committee, the CPA report does not discuss the outlook for new supplies during the year. However, from current information, it is evident that world production in 1947 will fall far short of consumption even at controlled levels, making necessary large withdrawals from stocks, CPA said.

Total tin stocks in the United States declined by nearly 14,000 tons in 1946. Because industry stocks already were at minimum working levels, the entire drop was in government stocks, which were reduced to 53,337 tons.

DCAT to Resume Fall Golf Tourney

After a lapse of five years, the Drug, Chemical and Allied Trades Section of the New York Board of Trade will resume its annual fall meeting and golf tournament at Shawnee Inn, Shawnee-on-Delaware, Pa., September 25-26.

ITO Hearings Reveal Varied Views on Benefits of Charter

OPD Washington Bureau

Informal hearings last week on the proposed charter for an International Trade Organization brought expressions of mixed feelings from industry spokesmen on the effect of such an organization on domestic tariff policies and world trade in general.

The hearings started in Washington February 25 and were continued in New York February 27 and 28. Further hearings are scheduled for today at Boston, Chicago and New Orleans, and at Denver and San Francisco on March 10.

In opening the hearings in Washington, Willard Thorp, of the State Department, pointed out that the United States is in no way committed to the charter and that the information gathered at the hearings will serve as a guide to American representatives in their discussions at the preparatory committee meeting in April.

Commerce Chamber Views

Wilbert Ward, vice-president of the National City Bank, New York, speaking on behalf of the United States Chamber of Commerce, said that while the chamber is not prepared to endorse all the provisions of the draft charter, because some of them should be redrafted to provide positive declarations in behalf of the maintenance of private initiative and enterprise, the chamber fully supports the objective of the ITO, recognizing that the nations must jointly concert the enlargement of trade on a non-discriminatory basis, with the elimination of barriers and unnecessarily restrictive practices.

It is the chamber's belief, he said, that the proposed organization can contribute greatly to the formulation of sound principles in the field of general business policy. The chamber regards the ITO, he declared, as a possible force for great good in world commerce and that it is a desirable adjunct to the machinery of international cooperation within the United Nations. Its formation, he added, is a logical step in the development of world peace.

It was the view of the American Tariff League, expressed by Richard H. Anthony, that the ITO can become a valuable and immediately useful institution if it performs its initial tasks ably. But if the tasks set for it are too many and too loosely defined, he said, it may end early in frustration and achieve a reputation for doing nothing well.

What is needed, he said, is a clear, simply-expressed set of basic principles which nations of varying political, social and economic climates, can endorse without reservation; initial tasks that will create and cement an atmosphere of mutual understanding and trust, and an avoidance, particularly in the beginning, of machinery which fosters charges and counter charges and envisions groups of nations sitting in judgment on other nations.

The proposed charter, Mr. Anthony said, is an imperfect instrument. In

—*Continued on page 44*

Truman Inserts 'Escape Clause' in Trade Pacts

OPD Washington Bureau

An executive order to strengthen this government's position under the Reciprocal Trade Agreements Act by making it possible for the United States to revoke or modify any tariff concession threatening serious injury to domestic producers was issued last week by President Truman.

At the same time the President modified the procedure in negotiation of trade agreements under the act to provide that any interested party may call on the Tariff Commission for an investigation in any situation where a flood of imports coming in under the trade agreement threatens the American producers of like or similar articles.

The modifications are understood to be in line with the recommendations made by Chairman Arthur Vandenberg, of Michigan, of the senate foreign relations committee, and Chairman Eugene D. Millikin, of Colorado, of the senate finance committee to

—*Continued on page 45*

Inch Pipelines Sale Approved by Justice Dept.

OPD Washington Bureau

The Department of Justice has approved the sale of "Big Inch" and "Little Big Inch" pipelines to the Texas Eastern Transportation Corporation for $143,127,000, according to the War Assets Administration. The government agency has accepted the company's cash proposal to buy the lines for the movement of natural gas to the Eastern seaboard.

Price Trend at New High

Although transactions were for the most part slower, the same reason—shortage of supplies—put more than a little stimulation on price views in the markets for chemicals, oils, and drugs last week. Botanical materials, both medicinal and technical, got on the upgoing side. Fats and oils contributed another big push. And the general average of prices in the markets was boosted up to a new high mark.

Supplies are scarce, first, because demand is away ahead of production, and secondly, because containers and carriers are still farther behind the needs of existing production. Many sectors of chemical manufacturing are beginning to feel the pinch of inadequacy of alkalies and related materials. The situation in calcium chloride is described as the worst ever known—and no improvement this year is looked for.

Tin chemicals have come back into the market after an absence of some three years. The supply is fair. Prices are high. Distribution is regulated. Lead was pushed to a higher price and the oxides and white lead were advanced in keeping. Higher prices for other lead salts are expected. Silver and its nitrate and bismuth and four salts also got boosts. On the other side of the movement, the lower price of quicksilver was further reflected in some hard and soft mercurials. The accomplished and threatening inroads of reparation quicksilver from Japan and Germany are already a depressant.

The coaltar sector remains quiet, except for the clamor of unsupplied consumers and the moaning of producers when another order must be added to the pile of those unfilled. Buyer resistance brought a substantial cut in turpentine prices. The downtrend of essential oils continued, taking in several domestic products. Polystyrene was reduced.

A new angle was spotlighted when a goodly export demand for vegetable oilmeals put prices of those materials in the upgoing group. Carnauba wax was another newcomer there. The customary boosting of domestic vegetable oils was joined by an increase in lard, more of which is expected if the price of hogs is kept up. Castor beans were put higher, and the bidding for almost exhausted stocks of flaxseed went high.

Fertilizer materials and other agricultural chemicals are still short in supply. Production is bigger than ever, but demand is still bigger. The relatively new fertilizer habits of the Middle West are one reason.

OPD Price Index

The Oil, Paint and Drug Reporter's relative record of prices for chemicals and related materials is currently as follows:—

Feb. 27, 1947	Feb. 20, 1947	Feb. 28, 1946
152.2	**151.3**	**136.0**

The base of the OPD Price Index is the average of prices in 1926 and 1936, those years representing extremes of price undulations in the interwar period.

OPD Index Monthly Averages

	1947	1946	1945	1941
January	150.9	135.3	133.0	107.8
February	151.8	135.4	133.2	110.3
Year's av'age		138.8	133.3	123.2

Peppermint Oil Duty Status to Be Unchanged

OPD Washington Bureau

The hint of a possibility that the Department of State may go no further than to bind the duty on peppermint oil at its present rate in the trade agreements planned for negotiation next April has been given by Willard Thorp, assistant Secretary of State. The basis for such action, it is believed, would be the fact that our exports in the past have exceeded imports and that Russia, temporarily, at least, appears to be out of the world peppermint market.

This situation was brought out by Mr. Thorp in a letter to representative George W. Gillie, of Indiana, early last month expressed concern over the threat of a cut in our tariff on the oil, and asked the department for data on costs of production of peppermint oil in Russia.

Mr. Thorp said that the department had little specific information on the Russian peppermint oil industry and could supply the congressman with no information on Russian costs of

—*Continued on page 44*

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Heyer Forms Firms

Walter R. Heyer has established the Heyer Chemical Company to act as midwest representative in industrial and medicinal chemicals, and the Walter H. Heyer Company for merchandising and marketing. These companies will be located in the La Salle Wacker building, Chicago.

Foreign Markets Listed

Lists of foreign outlets for chemicals and related materials recently compiled by the Commercial Intelligence Division of the United States Department of Commerce include the following:—

Business firms, St. Pierre and Miquelon.

Chemicals, importers and dealers, India; Iraq; Morocco; Panama, Trinidad.

Synthetic organic chemicals, manufacturers, New Zealand; Union of South Africa.

Copies of these trade lists are available from the compiling office. The price is $1 for a list for any one country.

Obituaries

Hugh A. Galt

Hugh A. Galt, former vice-president of the Pittsburgh Plate Glass Company, died at his summer home in Ventnor, N. J., February 24 after a brief illness. He was seventy-nine years old. Mr. Galt retired from the

Hugh A. Galt

company in 1940 after more than forty years service.

A native of Scotland, Mr. Galt came to this country at the age of twenty-one and became associated with the laboratory of Harrison Brothers, Philadelphia. Two years later he was named superintendent of the newly-formed Michigan Alkali Company, Wyandotte, Mich. In 1899 he was selected to build and operate a soda ash plant for Pittsburgh Plate Glass. That plant became Columbia Chemical division of the parent firm.

When he retired as vice-president in 1940, Mr. Galt also relinquished his position as president of Southern Alkali Corporation and the Columbia Alkali Corporation, Pittsburgh subsidiaries, and as general manager of Columbia Chemical division and the Columbia cement plant.

Rolly M. Cain

Rolly M. Cain, president and general manager of Abbott Laboratories, Chicago, died February 21 of a heart ailment in Phoenix, Ariz., where he was vacationing. He was sixty-five years old. Prior to his election as

Rolly M. Cain

Abbott president last April, Mr. Cain had been executive vice-president, assistant general manager, chairman of the executive committee and president and director of Abbott Laboratories International Company and

—Continued on page 80

Ammonia Prices Issued by du Pont

E. I. du Pont de Nemours & Co., Wilmington, has announced new zone price schedules for anhydrous ammonia in cylinders, and ammonium bicarbonate. They are effective April 1.

During the past few years, freight and other costs have increased considerably, a statement from the company's ammonia department said. These increased costs have prompted us to review the entire price structure with an aim to rationalization and simplification, the statement said.

It also was pointed out that 4.5 pounds of cylinder weight must be transported for every one pound of ammonia. Under the new schedule, the price per pound of ammonia in 50-pound cylinders is identical with that of ammonia in larger cylinders. Formerly, the cost per pound, in 50-pound cylinders, was 6c. higher. And, too, under the new schedule, the cylinder deposit will be uniform at $25 regardless of the size of the container.

The new prices on ammonium bi-

—Continued on page 50

Foreign Sales Leads

Anyone interested in supplying the following inquiries with goods or information can get the full address of the inquirer by communicating—not by telephone, please—with the OPD office:—

Ammonia, anhydrous, Tel-Aviv, Palestine (G-3).

Ampul tubing and apparatus, Brussels, Belgium (G-7).

Barytes, Mons, Belgium (G-5).

Chemicals, Bombay, India (G-2).

Chromium oxide, Mons, Belgium (G-5).

Coconut oil, Turin, Italy (G-8).

Dyes, Bombay, India (G-2).

Essential oils, Peruwelz, Belgium (G-4).

Ether, sulphuric, Brussels, Belgium (G-6).

Ethyl acetate, Brussels, Belgium (G-6).

Lard, Mexico D.F., Mexico (G-9).

Linseed oil, Helsinki, Finland (G-1).

Milk powder, Mexico D.F., Mexico (G-9).

Paints and colors, Helsinki, Finland (G-1).

Paraffin, Mexico, D.F., Mexico (G-9).

Pharmaceutical specialties, Peruwelz, Belgium (G-4).

Plastic films, Peruwelz, Belgium (G-4).

Soda ash, light, Mons, Belgium (G-5).

Sodium picramate, Brussels, Belgium (G-6).

Calcium Chloride Price Policy Changed

The Columbia Chemical Division of the Pittsburgh Plate Glass Company has announced the departure from the previous zone delivered price policy on the sale of calcium chloride.

Effective immediately, the price of 'Columbia' flake calcium chloride, packed in 100-pound moisture-proof paper bags becomes $22 per ton, f.o.b. Barberton, Ohio, freight equalized with Midland, Mich. and Syracuse, N. Y.

The price of 40 percent calcium chloride liquor has been listed $9 per ton of liquid f.o.b. Barberton, Ohio,

—Continued on page 45

Bids Wanted

Acrylic denture base, as required from April 16, 1947, through April 15, 1948, Veterans Administration (Washington, D. C.) invitation D-98, March 4.

Adhesive, 17,450 gallons, Army Air Forces (Dayton, Ohio) invitation 398, March 12.

Carbon tetrachloride, 834,795 pounds, Army Air Forces (Dayton, Ohio) invitation 384, March 21.

Chlorinated lime, 31,000 pounds, Army Quartermaster (New York City) invitation 120, March 6.

Chromic acid, 108,000 pounds, Navy Department (New York City) negotiation 924, March 4.

Corn sugar, 3,000 pounds, Department of Justice (Terre Haute, Ind.) invitation 31-2534, March 6.

D.D.T. powder, 100 pounds, Department of Justice (Terre Haute, Ind.) invitation 31-2532, March 5.

Floor wax, liquid, 6,300 gallons; paste, 16,748 pounds, Marine Corps (Philadelphia, Pa.) schedule 329, March 7.

Glucose, 4,000 pounds, Department of Justice (Terre Haute, Ind.) invitation 31-2534, March 6.

Lacquer, pyroxylin, 630 gallons, Army Air Forces (Dayton, Ohio) invitation 401, March 13; 14,424 gallons, invitation 411, March 14.

Linseed oil, boiled, 326 gallons; raw, 275 gallons, Treasury Department (San Francisco, Calif.) invitation SF-2729-47, March 10.

Magnesium arsenate, 500 pounds, De-

—Continued on page 86

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Market Reports

Basic sulphate of white lead and basic sulphate of blue lead were both advanced ¾c. per pound last week, following the 1c. per pound pig lead advance. The carlot price for both products became 14½c. per pound in barrels and less carlot shipments were being quoted at 14¾c. per pound in barrels. Changes in other lead pigments are listed on page 75.

Bismuth salts of the "minor" sort have been assigned the following and higher price positions:—Chloride, $4.50 per pound; citrate, $3.12; hydroxide, $4; oxychloride, $3.80. Schedules on anhydrous oxide, subiodide, and sulphocarbolate are still lacking.

Coconut Oil—Moderate sales of crude coconut oil were made at 21c. per pound, tankcars, f.o.b. Pacific coast, an increase of 1c. above previous business. Market was firm and reflected the strength in copra.

Coumarin prices will be advanced 25c. per pound for lots of less than twenty-five pounds, effective April 1, it has been announced by one producer. The price established by the change will be $3 per pound.

Leaded zinc oxides were advanced late last week following the pig lead price increase. The 35 percent grade was advanced ¼c. per pound, with carlot shipments selling for 11¼c. per pound, and less carlots for 11½c. per pound. Zinc oxide with 50 percent lead content were increased ⅜c. per pound, with the following prices in effect:—Carlots, 12c. per pound, and less carlots, 12¼c. per pound.

Linseed oil—Buenos Aires, Feb. 28.—Shipments of linseed oil totaled 4,938 tons to Europe and none to the United States last week. No flaxseed shipments were made.

Methyl salicylate prices named in one quarter will be retained at 35c. per pound. Another producer recently advanced the market to 40c. minimum. However, while April 1 prices for 500 pounds or more will be retained as lowest at 35c., quotations on smaller quantities will rise to 40c. per pound in fifty-pound lots.

Potash-Titanium Oxalate — Higher prices have been established for this chemical. The lowest figure named was 50c. per pound with a range upward to 55c., depending upon the quantity.

Silver bullion prices were jumped to 78¼c. per ounce and bids at 78½c. were reported late last week. The rise was the result of the necessity to divert silver to local or American industrial users whose ability to obtain metal has been weakened by the buying of metal by British interests.

Silver nitrate prices were advanced to place them in line with silver bullion at its latest price advance. Quotations became as follows:—In 250-ounce bottles, 2,500-ounce lots, 51⅛c. per ounce; 1,000-ounce lots, 51⅜c.; 500-ounce lots, 51⅝c., and single 250-ounce bottles, 51⅞c.

Tanning Extracts—As a result of the increased cost of production, prices were advanced for fustic, hematine, hypernic, logwood, osage orange and quercitron extracts. Solid extract was raised 4c. to 7c. per pound, as to grade; liquid, 1c., and crystals, 3c.

Tung oil import control was revoked February 28 by the Department of Agriculture. Revocation was made in an amendment to WFO No. 63.

Surplus Chemicals Offered by N.Y. WAA

The New York regional office of the War Assets Administration has in progressed until March 12 a fixed-price sale (NYO-71-1176) of numerous lots of chemicals and chemical specialties, located in Buffalo. The items offered include:—

Calcium polysulphide solution, 269 gallons, 79 cents per gallon.

Chlorinated paraffin, 70 percent, 21,502 pounds, 10 cents per pound.

Copper hydroxynaphthanate solution, 11 percent, 6,785 pounds, 20 cents per pound.

Copper plating salt, 1,000 pounds, 30 cents per pound.

Lead fluoroborate concentrate, 91 gallons, $1.37 per gallon.

—Continued on page 37

Soybeans Support Price Fixed for 1947

OPD Washington Bureau

The farm price of 1947 crop soybeans, grading U. S. No. 2, and containing 14 percent moisture, will be supported at $2.04 a bushel for green and yellow varieties and $1.84 for brown, black and mixed varieties, by the Department of Agriculture.

The support price is to be maintained at this level to encourage producers to harvest 11,244,000 acres of 1947 crop soybeans, the goal acreage which was announced by the department on January 14. This is an increase of 1,638,000 acres above the acreage harvested in 1946.

Farm prices for the soybeans will be supported by means of loans and purchases by the Commodity Credit Corporation. Loans will be offered at the support price level in substantially the same manner as for the 1946 crop. Purchases at support price levels will be made by the CCC if such purchases are necessary to assure producers receiving the minimum support price.

Chilean Nitrate Price Study Report Filed

OPD Washington Bureau

Prices of Chilean nitrate to the United States have been running from $3 to $6 per ton lower than for sales to other world markets during the past five fertilizer years, according to a report on the Chilean nitrate industry prepared by the American Embassy at Santiago. For the 1946-47 year prices to the United States were $4 a ton less than for those for Europe.

The price of nitrate, f.a.s. Chilean ports for the United States, as compared to the European price, f.a.s. Chielan ports, was shown in the following table contained in the report on ton basis:—

	1942-43	1943-44	1944-45	1945-46	1946-47
F.A.S.—					
For U.S.A..	$21.00	$22.06	$22.18	$21.54	$27.00
For Europe.	24.00	28.00	28.00	28.00	31.00

The report said that the price that the Chilean Nitrate & Iodine Sales Corporation obtained on nitrate sales in the last years has not been satisfactory to the industry. During the war years the price of nitrate remained at an average price of $21.90 per ton f.a.s. Chile. The United States government then paid the ocean freight and distribution charges, which brought the cost to around $36 per ton and it was sold to the American farmer at $30. Continuing, the report added:—

The last normal year immediately preceding the outbreak of the war was 1938-39. During this year, the report said, the industrial f.a.s. cost of Chilean nitrate was estimated to be $12.25 per metric ton. From that year through 1944-45, this industrial cost price of Chilean nitrate, as defined in the organic law of the sales corporation, advanced $5.04 per short ton.

During the nitrate year 1945-46, the industrial cost of production of the nitrate industry showed an additional increase of 85c. per ton as a result of the individual increases in the several production cost items. Consequently, the total increase in cost for the period 1938-39 through 1945-46 amounts to $5.89 per short ton, or $6.48 per metric ton. On the basis of an industrial cost of $12.25 in 1938-39, present cost of

—Continued on page 50

Chilian Nitrate Vessels To Operate to June 30

OPD Washington Bureau

President Truman has given his approval to legislation continuing the authority of the Maritime Commission to operate cargo vessels in ocean trade until June 30 and thereby removed any threat to the program for shipment of Chilean nitrate to this country.

Authority of the commission to operate the vessels would have expired by law February 28 but for the passage of H. J. Res. 114 and its signing into law by Mr. Truman. The Maritime Commission has fifteen vessels operating in the movement of the Chilean nitrates, which would have been directly affected had the the authority been permitted to lapse.

Alcohol Stocks Held Sufficient

OPD Washington Bureau

Stocks of alcohol of the Reconstruction Finance Corporation now total over 8,000,000 gallons, officials said, with the figure going up steadily with new arrivals from Cuba. The stockpile was described as a "comfortable margin" to meet all industrial demands now foreseeable.

The agency reported that shipments are now coming in under the 1947 purchase contract, which calls for delivery of upwards of 20,000,000 this year. About 4,000,000 gallons have been delivered under the contract thus far. The agency also is committed to purchase 10,000,000 gallons in 1948.

Munitions Board Plans Industry Advisory Group

The Army-Navy Munitions Board is issuing invitations for candidates, representatives of United States industry, for industry advisory committees to aid in national defense planning. The committees, when formed, will aid the board in planning for future emergencies, in the creation of an industrial mobilization plan and in the board's stockpiling program.

Invitations to submit names from which nominations may be selected are being sent to trade associations of the various industries, technical association, service associations.

Dodge & Olcott Elevate F.T. Dodge and Myers

Directors of Dodge & Olcott, Inc., essential oils and aromatic chemicals, New York, have elected Francis T. Dodge as chairman of the board, and Charles A. Myers as president. Mr. Dodge was formerly president of the company, and Mr. Myers was executive vice-president. Mr. Myers has been with the organization since 1907, and for a long period was vice-president and manager of the Bayonne, N. J., plant.

Paint Evaluation Discussed In ASTM Symposium

The paint industry has a particularly essential need for standardized specifications and, consequently is appreciative of the development and application of methods of standardization, said John C. Moore, of the paint division of the Sinclair Refining Company, when he represented the Federation of Paint and Varnish Production Clubs, of which he is president, at the opening of the symposium of the American Society for Testing Materials on paint and paint materials February 25 in the Benjamin Franklin hotel, Philadelphia. The work of the association in the areas of paint specifications was useful to the paint production man, Mr. Moore said; and there was a strong desire on the part of the federation to cooperate more closely in ASTM activities. He suggested that the work on paint materials be reported progressively to the federation in order that the members of the latter might have an opportunity to contribute out of their experience and experimentation. They would welcome such an opportunity and they would join fully in mutual services.

The paint symposium was under the direction of Carlton H. Rose, of the National Lead Company, who is secretary of ASTM committee D-1 on paint, varnish, lacquer, and related products. It was divided into three sections with subchairmen, as follows:—(1) Methods of evaluation of paints, C. C. Hipkins, of Bell Telephone Laboratories, Inc.; (2) methods of evaluation of paint materials, M. Van Loo, of the Sherwin-Williams Company; (3) statistical analysis of paint test data, L. A. Melsheimer, of the American Cyanamid Company.

Industrial Finishes

In the evaluation of industrial finishes, covered by R. A. Pringle and E. M. Yacko, of the General Electric Company, tests are largely made on bonderized steel panels, although panels of aluminum, zinc and other nonferrous metals may be used, which are spray-coated at an angle of 45 degrees. The tests include saltwater spray in an apparatus similar to that recognized for ASTM work; humidity, by cabinet test; alkali resistance to 1.5 percent "gold dust" solution; abrasion, by means of the Taber apparatus, measuring by weight loss; hardness, by means of the Sward rocker; flexibility, by bending on a conical mandril; chipping, by means of end-on impact of a dropping steel rod; staining and discoloration, by means of fruit acids; adhesion, by the knife and fingernail method.

The weighting of the several tests, usually on a decimal scale, is proportioned to the enduse of the article coated, in respect of the relative value in use of the several properties. It is recognized that only relative values are got by any tests.

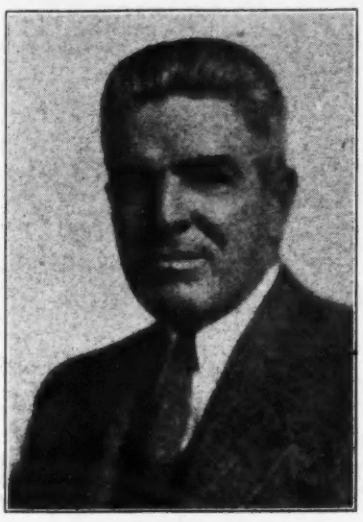
Automobile Finishes

Personal evaluation is still a controlling factor in the evaluation of automobile finishes, on which F. G. Weed and N. P. Beckwith, of the Rinshed-Mason Company, spoke. Reliance is placed more on methods established and known through experience, than on new ideas. The evaluations cover saline action, sun and dew, humidity, temperature extremes, shock and distortion, dust and grime, elasticity, color stability, gloss, dura-

—Continued on page 78

J.A. Reardon Named Chairman of Reardon Co.

James A. Reardon has been elected to the newly created office of chairman of the board of the Reardon Company, paint manufacturer, St. Louis, Mo. David H. Moran, former vice-president in charge of Chicago operations, has been elected to president, with headquarters in St. Louis. Frank E. Williams has been named to fill the vacancy on the board of directors.



J. A. Reardon

William L. Harper, formerly of the New York office of the Reardon Company, has been appointed manager of the Chicago division, succeeding David H. Moran.

Washington Talks It Over

The OPD Observer

Labor and management have finally agreed on one thing. The question of a guaranteed wage is not something that can ever be solved by legislative action of congress, but has to be treated through the medium of collective bargaining between the workers and their employers.

President Truman's Reconversion Advisory Board has had the matter of guaranteed wages under study for more than a year in an effort to find some way by which this highly desirable goal can be reached. Last week they reported their conclusions to the President and in effect advised him against tossing the solution of the question to congress. Better results can be obtained, they felt, by leaving it up to employers and the unions themselves.

The reason why they took this position is because stabilization of employment and its effectuation through wage or employment guarantees are matters of mutual concern to employers and employees. Each party has the definite responsibility of seeking to stabilize operations within a plant or industry in order to advance the level of general economic security of the nation.

This is to say that each industry has its own problems and no one single system of guaranteed wage can be made to fit all industry. For congress to attempt to meet the situation, it would have to pass a law so broad in its terms that it would be practically meaningless.

No Daylight Saving for D.C.

Daylight saving time for the District of Columbia appears to be something that the residents of this community will never enjoy until means can be found to have the sun rise on the west coast the same time that it rises in the east. When the house defeated attempts to provide daylight time in the District last week, most of the blame for defeat of the bill was placed on the farmers in the surrounding area who complained that they would have to get up an hour earlier in the morning.

But that wasn't the only source of the opposition. Strangely, a lot of the opposition came from the west coast congressmen who offered quite a novel argument against the bill. Said one congressman from California:—

Has any thought been given to the situation out on the west coast? There are now three hours' difference in the time out there and here. If we add another hour, what effect will that have on my people out there should they want to call members of congress here in Washington. Far instance, there might be a meeting in my district at 10 o'clock in the evening and they might want to call immediately their congressman by telephone. They would wake him up and get him out of bed at two or three in the morning."

He wondered if the bill was for the people of the District of Columbia or was consideration being given that some of the other states are in the U. S. along with the D. C. The people of the District of Columbia who were overwhelmingly in favor of the bill are wondering the same things.

House Paints Distribution

The Office of the Housing Expediter is hoping that the paint industry will give careful attention to its distribution programs this year so that paint will reach the areas mostly where

—Continued on page 38

Humble Oil Buys Texas WAA Property

Humble Oil & Refining Company, Baytown, Tex., has purchased from War Assets Administration government-owned surplus facilities located on the Humble Company property at Baytown. Sale price was $93,000. The facilities, which are scrambled with those owned by the Humble Company, include an office building, pipelines, pumps and other miscellaneous equipment. The plant of which the facilities are a part was built in 1943 to produce high quality components for aviation gasoline, principally hydrogenated polymer.

Schering Corp. Elects McDonnell Vice-Pres.

The Schering Corporation, pharmaceutical manufacturer, Bloomfield, N. J., has elected Dr. John N. McDonnell as vice-president. He formerly was director of domestic sales and promotion.

What's NEW at NYQ

Totaquine Now Available

Now that Totaquine has been released from allocation, N.Y.Q. Totaquine is available without restrictions.

Improved methods of manufacturing, the use of the most modern equipment, and the supervision and control of production by a larger staff of experienced chemists, have resulted in a vastly superior product. Today N.Y.Q. Totaquine is light in color and relatively free from "quinoidine," and ideal for the manufacture of tablets, chill tonics, etc.

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Amylcresols, Secondary

Disinfectant—Toxic agent (U.S. 2198349) in germicidal compositions.

1-Benzamido-1:4-bis-parapropanesulphonylbenzamidoanthraquinone

Dye—Claimed (Brit. 549640) as brilliant scarlet to red vat dye of good light-fastness.

Benzylpyridinium Tartrate, Normal

Rubber—Accelerator (U.S. 2131244 and 2131245) in vulcanizing processes.

Beta-beta'-hydroxyethylaminoethylamide of Coconut-Oil Fatty Acids

Chemical—Starting point (Brit. 541-682) in making emulsifying agents of low melting point by condensing with aliphatic aldehydes, and water-soluble detergents, wetting and foaming agents, resistant to acids and alkalis, and insensitive to calcium and magnesium, by condensing with aliphatic aldehydes and sulphonating.

Betadiethylaminoethylcarbazole 2-Carboxylate

Pharmaceutical—Claimed (U.S. 2250-004, 2250005, and 2250006) as local anesthetic.

Betaiminodipropionic Acid Dimethylester

Chemical—Reactant (U.S. 2249134 and 2249135) in making dimethyldiethylcyanamide Beta-beta'-dicarboxylate.

Betamethoxymethoxyethyl Acetate

Chemical—New organic compound offered (U.S. 2298186) as interesting to chemists.

Butyl Permolybdate Tertiary

Chemical—Oxidizing agent (U.S. 2169368) in organic syntheses.

Dye—Oxidizing agent (U.S. 2169368) in converting anthracene into anthraquinone.

Association Meetings

American Association of Cereal Chemists, President hotel, Kansas City, Mo., May 19-23.

American Management Association Conference on Packaging, Packing and Shipping, Convention Hall, Philadelphia, April 8-11.

American Water Works Association 1947 Conference, Auditorium, San Francisco, July 21-25.

American Zinc Institute, Statler hotel, St. Louis, April 28-29.

Animal Health Institute, Jefferson hotel, St. Louis, April 14.

Chemical Institute of Canada, Banff Springs hotel, Banff, Alberta, June 8-10.

Chemical Market Research Association, Du Pont hotel, Wilmington, Del., April 17.

Drug, Chemical and Allied Trade Section of New York Board of Trade, Waldorf-Astoria hotel, New York, March 13.

Federal Wholesale Druggists Association, Pennsylvania hotel, New York, March 3-5.

Metal Powder Association, Waldorf-Astoria hotel, New York, May 27.

National Association of Corrosion Engineers, Palmer house, Chicago, April 7-10.

National Association of Insecticide and Disinfectant Manufacturers, Edgewater Beach hotel, Chicago, June 9-11.

National Association of Purchasing Agents, Waldorf-Astoria hotel, New York, June 2-4.

National Farm Chemurgic Council, Skirvin hotel, Oklahoma City, March 26-29.

National Fertilizer Association, Essex and Sussex hotel, Spring Lake, N. J., June 20-21.

National Wholesale Druggists Association, Palmer house, Chicago, April 21-23.

Natural Gasoline Association of America, Baker hotel, Dallas, Tex., April 23-25.

Society of American Bacteriologists, Bellevue-Stratford hotel, May 12-16.

Oil Trades Association of New York, Waldorf-Astoria hotel, New York, March 18.

Southern Paint and Varnish production Club, Peabody hotel, Memphis, March 20.

Amer. Potash President

Peter Colefax recently was elected president of the American Potash & Chemical Corporation. Formerly, he had been executive vice-president. Mr. Colefax joined the firm in 1935.

Foreign Farm Products Standards Control Asked

OPD Washington Bureau

A bill authorizing the Secretary of Agriculture to prescribe standards for imported agricultural food products has been introduced in the house by Representative August H. Andresen, of Minnesota. The bill (H.R. 2160) has been referred to the house committee on agriculture for consideration.

Under its terms, the secretary would prescribe standards or requirements for the labeling, packaging, quality, sanitation, or standards of identity, in respect to the production, manufacture, processing, packaging, distribution, or handling of any imported product of plant or animal life used or intended to be used as food for human consumption in the United States, when like standards are in effect for the products of domestic production. The bill would become effective ninety days after enactment.

NPA to Meet Apr. 16-18

OPD Washington Bureau

The National Petroleum Association will hold its forty-fourth semi-annual meeting at the Cleveland hotel, Cleveland, April 16-18.

Pulp and Paper Technicians Discuss Production, Research

The most recent developments of engineering, production, and scientific research were described at the annual meeting of the Technical Association of the Pulp and Paper Industry, held at the Commodore hotel, New York, February 24-27. Several speakers were presented at each of the sessions on fibrous agricultural residues, water, engineering, color, packaging materials, mechanical pulping, acid pulping, pulp purification, testing of containers and packaging materials, drying and ventilating, statistics, paper deinking and alkaline pulping, plastics, coating and non-fibrous testing, mill instrument control, papermaking, preparation of papermaking materials and chemical methods, and vocational training.

Worthen E. Brawn, of Pejepscot Paper Company, was elected president of the association, succeeding G. W. E. Nicholson, of Union Bag & Paper Corporation. Wilbur F. Gillespie, technical director of Gaylord Container Corporation, was selected vice-president.

At the opening general session presided over by Mr. Nicholson, a discussion of the technical merchandising of paper was presented by John W. Crosson of the Meade Corporation. He pointed out that this problem should be approached through the development of a product and sales point-of-view by the mill chemist and engineer, while at the same time making mill management and sales more research minded.

E. C. Jahn of the New York State College of Forestry, discussing research organization in the Scandinavian countries, stated that in Sweden, Finland and Norway research in pulp and paper is promoted by the industry as a whole, as well as by individual companies and by university and government laboratories. In each country, he said, the industry maintains a central research laboratory, and cooperation of all, for the good of the industry is stressed.

Agricultural Residues

According to George S. Hannaway of the Monsanto Chemical Company the experiences of two mills on the pulping of straw with digestion liquors containing sodium sulphite, lime, and soda ash or caustic soda were described. Indications were, he said, that the Riehle test on the product could be increased 10 to 20 percent and at the same time slightly reduce the sheet weight, and that bursting strength is relatively unaffected. From the use of sodium sulphite in the liquor it is expected that there will result such advantages as reduction in lime use, improved strawboard properties, reduced pulp washing time, less liming of paper machines, reduction in fines and greater yield, according to Mr. Hannaway.

It was stated that since temperature, rather than pressure, inside digesters is the critical factor in the rate of delignification there is need for greater attention to this factor.

Report of an investigation of nine point straw for corrugating, presented

—Continued on page 60

Edwal Names Thomas Purchasing Agent

Wilson Thomas, recently discharged as a Colonel in the Army, has been named purchasing agent for Edwal Laboratories, Chicago. He succeeds Herman Kerst, jr., who has resigned to become a research chemist in the chemical engineering department of the National Cylinder Gas Company.

Wilson Thomas

Mr. Thomas, a graduate of Iowa University, taught high school chemistry for ten years before joining the Army.

The company also announces that Dr. Herbert C. Stecker has joined the staff to engage in technical sales, particularly with respect to fine chemicals and pharmaceutical intermediates. He formerly was a research chemist at the Jackson laboratory of E. I. du Pont de Nemours & Co., Wilmington, Del.

Labor Relations

Mitchell M. Shipman
Labor-Management Consultant

Mt. Clemens Portal-Pay Decision: Its Meaning and Effect

Part II

In the preceding column, we discussed the problem of what constitutes walking time. Does it include the time consumed by the employee in walking from his job to the cafeteria located on the employer's premises? What about the walking time at the end of the day? It that time counted in the total compensable walking?

As to the former, noonhour walking time, here Judge Picard held that he would not count it on the grounds that it did not meet the supreme court's test. It was not "necessarily and primarily for the benefit of the employer and his business." It was principally for the employee's benefit. It must therefore be excluded.

As far as walking time in coming from work is concerned, here again, the court concluded that such time is likewise not to be included as compensatory walking time. The court arrived at this conclusion by pointing out that the supreme court in its decision expressly refers to the time required in "walking to work" on the employer's premises. The judge points out that he examined the supreme court's decision in vain to find any reference to walking time involved in coming *from* work as being compensatory. "If the supreme court meant to include walking from the job as walking time, would it not have said so?" Not having said so and in fact, indicating a contrary intention, Judge Picard accordingly, concluded that this walking time from the job, like the walking time during lunch period, must be excluded and that compensatory walking time was to be limited solely to walking time to the place of work.

Preliminary Activities Time

The next question involved the matter of "preliminary activities" time. Thirteen items were listed by the court. Certain of these items, such as putting on aprons and overalls, and taping of arms, appear to be considered by the court as not warranting their inclusion in "preliminary activities" time, apparently on the basis that they were voluntary and for the benefit and comfort of the employees. It indicates some doubts as to whether many of these items of preliminary activities should be included. It then proceeds on the premise that, even if they were to be included, their sum total would only be three minutes a day. As such, the total time would still be *de minimus* or trifling.

On the question of the application of the *de minimus* rule, here again the court refers to the ambiguity in the supreme court's decision as to what precisely constitutes *de minimus*. It then goes on the premise that, for the purposes of the case, it would consider at least twelve minutes of walking time daily as not being *de minimus*. Finding then that the maximum walking time to the workbench amounted to only six and eight-tenths minutes daily, the court accordingly concluded that the *de minimus* rule barred recovery.

Still a further and most important issue faced the court in connection with the application of the *de minimus* rule. Was the rule to be applied

—Continued on page 72

Frank B. Jewett Fellowships Awarded

The American Telephone & Telegraph Company last week announced the award of seven Frank B. Jewett Fellowships for research in the physical sciences. They carry an annual stipend of $3,000 to the holder and $1,500 to the institution at which the recipient elects to do research.

Winners this year are Dr. M. G. Ettlinger and Wallace D. Hayes, California Institute of Technology; Paul Olum, Harvard University; Aadne Ore, Yale University; Dr. Alfred Schild, Carnegie Institute of Technology; Dr. Robert L. Scott, University of California, and Edwin H. Spanier, University of Michigan.

Copyright Law Modernization Asked

OPD Washington Bureau

A bill to codify and enact into positive law title 17 of the United States Code entitled "copyrights" has been introduced in the House by Representative John M. Robsion, of Kentucky. The bill (H.R. 2083) seeks to make no substantive changes in the law, but merely eliminates old statutes no longer operative and attempts to bring this chapter of the code up to date in conformity with latest court interpretations of the various copyright statutes.

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Current Market Quotations
Chemicals and Related Materials

February 27, 1947

Unless otherwise indicated, quotations are first-hands on large lots, f.o.b. New York. Price changes and trends are noted in the market reports, with other informative comment. The locations of these reports are given in the table of contents on page 4.

All matters under this heading fully protected by copyright.

A

Acacia (see Gum, Arabic).

Acetaldehyde, 99%, dms., 55 gals., works..lb. .11 - .12
5 and 10 gals., works....lb. .14 - .15
tanks ..... lb. .08 - .09

Acetaldol (see Aldol).

Acetamide, CP, fib. dms.....lb. .65 - .75
tech., fib. dms.....lb. .33 - .43

Acetanilide, tech., cryst., powd., bbls. c.l..lb. .19 - —
l.c.l. .....lb. .22 - —
kgs. .....lb. .25 - —

USP, cryst., powd., bbls., 2,000-lb. lots..lb. .40 - .41
smaller lots.....lb. .41 - .42

Acetic anhydride, dms., c.l., frt. alld..lb. .11¼- —
l.c.l., frt. alld.....lb. .13 - —

Acetoacetanilide, bbls., dms....lb. .60 - —

Acetone, CP, dms., c.l., dlvd..lb. .08½- .12
l.c.l., dlvd.....lb. .09½- .12½
tanks, dlvd.....lb. .07 - .10

Methyl (see M).

Acetonitrile, dms., c.l., works.lb. .45 - —
l.c.l., works.....lb. .50 - —
5-gal. lots, works.....lb. .55 - —
less than 5-gal. lots, works.lb. .60 - —

Acetophenetidin, USP, bbls., kgs., 1,000-lb. lots..lb. 1.00 - —
dms. .....lb. 1.08 - 1.10

Acetophenone, cns., dms.....lb. 1.50 - 1.75

Acetyl chloride, cbys., works.lb. .60 - —

Acid, abietic, doms., c.l., wks..lb. .07½- —

Acetic, com'l or redist., 28%, bbls..100 lbs. 3.75 - 4.05
50%, bbls.....100 lbs. 7.56 - 7.81
70%, bbls.....100 lbs. 9.45 - 9.70
80%, bbls.....100 lbs. 10.80 -11.05
99.5%, bbls.....100 lbs. — - —
glacial, synthetic, C.P., dms., works..100 lbs. 13.20 -13.75
tanks .....100 lbs. 7.62 - 7.92
tech., works.....100 lbs. 9.90 -10.20
tanks, works.....100 lbs. 7.62 - 8.12
USP, dms., works..100 lbs. 11.60 -11.65
USP, 56%, cbys.....lb. .1000- .1606

Acetic acid price ranges above are for c.l. and l.c.l. quantities. Carboys and casks are 50c. per 100 lbs. higher.

Acetic anhydride (see Acetic anhydride above)

Acetylsalicylic, special, USP, bbls., makers, primary distrib., point of shipm't, 100-lb. lots..lb. .50 - —
smaller lots.....lb. .51 - .64

standard USP,, fine cryst., gran. (30-40 mesh), powd. (80 mesh), bbls., same basis. lb. .45 - .59

Freight equal'd, shipment identical quantity over standard routes, from N. Y. City, Phila., Midland, Mich., Chicago and St. Louis.

Aminoacetic, USP, cryst., powd., bbls., frt. adjusted..lb. 1.50 - 1.67

Anthranilic, resub., bbls....lb. 2.00 - 2.20
tech., bbls. .....lb. .90 - —

Arsenous, tech. (see Arsenic, white).

USP, powd., dms., kgs....lb. .20 - .22

Ascorbic, USP, dms., 500-kilo lots..kilo.24.50 - —
25-50 kilo lots.....kilo.25.00 - —
10-kilo lots.....kilo.25.25 - —
5-kilo lots.....kilo.25.70 - —
bots., k'lo lots.....kilo.26.41 - —
500 grams.....kilo.27.47 - —

Battery, cbys., c.l., E. works.. 100 lbs. 1.60 - 1.75
l.c.l., E. works.....100 lbs. 2.05 - 2.75

Benzoic, tech., bbls., 4,000 lbs. or more..lb. .43 - —
1,000 to 3,900 lbs.....lb. .44 - —
900 lbs. or less.....lb. .47 - —

USP, bbls., 4,000 lbs. up..lb. .54 - —
1,000 to 3,900 lbs.....lb. .55 - —
900 lbs. or less.....lb. .58 - .59
dms., 4,000 lbs. up.....lb. .55 - .56
1,000 to 3,900 lbs.....lb. .56 - .57
900 lbs. or less.....lb. .58 - .59

Betanaphthol, bbls., works. lb. .95 - —

Boric, tech., 99.5%, gran., bulk. ton.96.50 -100.00
paper bgs., c.l., frt. alld. ton.99.00 -105.00
ton lots, ex whse. N. Y. or Chi..ton.117.50 - —
less ton lots, same basis. ton.122.50 - —
bbls., c.l., frt. alld..ton.119.00 -128.50
ton lots, ex whse. N. Y. or Chi..ton.137.50 - —
less ton lots, same basis. ton.142.50 - —
cryst., powd., paper bgs., c.l., frt. alld..ton.104.00 -108.50
ton lots, ex whse. N. Y. or Chi..ton.122.50 - —
less ton lots, same basis..ton.127.50 - —
bbls., c.l., frt. alld.ton.124.00 - —
ton lots, ex whse. N. Y or Chi..ton.142.50 - —
less car lots, same basis..ton.147.50 - —

USP $25 per ton higher.

Butyric, 99%, dms., c.l., works. lb. .29 - —
l.c.l., same basis.....lb. .30 - —

Broener's, bbls.....lb. 1.22 - —

Cacodylic, bots.....lb.13.00 -16.50

Camphoric, synthetic, cns....lb. 7.00 - 7.25

Caprylic, 99%, dms.....lb. No stocks

Cacric, tech., ret. dms.....lb. No stocks

Castor oil, split, ret. dms...lb. No stocks

Acid, chlorosulphonic, dms., c.l., works..lb. .03 - —
l.c.l., works.....lb. .03½- .04½
tanks, works.....lb. .02½- —

Chromic, 99¾-99¾%, dms., c.l., lb. .20 - —
l.c.l. .....lb. .20½- .21

Cinnamic, refd., bots.....lb. 3.00 - 3.50

Citric, anhyd., gran., dms., c.l..lb. .22½- —
l.c.l., 10,000 lbs. 1 ship't. lb. .23 - —
smaller lots, bbls.....lb. .23½- —
dms. .....lb. .25½- .26½
kgs. .....lb. .24 - —

USP, cryst., gran., bbls., c.l., lb. .20 - —
l.c.l., 10,000 lbs., 1 ship't. lb. .20½- —
smaller lots, bbls. .....lb. .21 - —
dms. .....lb. .23 - .24
kgs. .....lb. .21½- —
powdered citric acid, ½c. higher.

Cleve's, bbls.....lb. .65 - 1.00

Coconut oil, dist., dms.....lb. .30 - .30½

Corn oil, s.d., dms., c.l., wks. lb. No prices

Cottonseed oil, s.d., dms., c.l. lb. No prices
tanks, dlvd. .....lb. No prices

Creosylic dom. coaltar, high-boil 50% (210°-215°), low boil 50% (204°-208°), and special blends, dms., c.l., works, frt. equald..gal. 1.01 - —
l.c.l., same basis....gal. 1.04 - —
tanks .....gal. .90 - .95

Petroleum, heavy grade (347°-398°), dms., 20, Cal. ref..gal. .499 - —
Sewaren, N. J., ref. gal. .616 - —
1-19, Cal., ref....gal. .510 - —
Sewaren, N. J., ref. gal. .636 - —
tanks, dlvd.....gal. .566 - —
light grade (200°-346°), tanks, Cal., ref..gal. .690 - —
medium grade (220°-346°), dms., 20 Cal., ref..gal. .50 - —
Sewaren, N J., ref. gal. .636 - —
1-19, Cal. ref....gal. .570 - —
Sewaren, N. J., ref. gal. .696 - —
tanks., dlvd. ....gal. .946 - —

Crotonic, bbls., Canadian, wks. lb. .25 - —

Dichlorophenoxyacetic, fib. dms., c.l., works..lb. .80 - —
l.c.l., works.....lb. .85 - .95

Diethylbarbituric (see Barbital).

F (see Acid, monosulphonic).

Formic, 85%, cbys., c.l., wks.lb. .12 - —
l.c.l., works.....lb. .12½- .14½
90%, cbys., c.l., works....lb. .12½- —
l.c.l., works.....lb. .13 - .14½

Fumaric, tech., bbls., dms..lb. .27 - .31

Gallic, NF V, 1,000-lb. lots, bbls..lb. 1.40 - —
smaller lots.....lb. 1.43 - 1.45
technical, bbls., 1,000-lb. lots. lb. 1.23 - —
smaller lots.....lb. 1.26 - 1.28

Gamma, bbls.....lb. .97 - —

Gluconic, tech., 50%, bots...lb. .28 - .31
dms. .....lb. .14 - —
kgs. .....lb. .16 - —

Glycolic (see Acid, hydroxyacetic).

H, bbls., works.....lb. 50 - —

Hydriodic, 45-47%, cbys.....lb. 2.52 - 2.84
57%, cbys. .....lb. 2.83 - 2.85

Hydrobromic, medicinal, 48%, cbys., dlvd. E..lb. .48 - —
tech., 48%, cbys., same basis, lb. .45 - —
34%, cbys., same basis...lb. .35 - .37

Hydrochloric (see Acid, Muriatic).

Hydrocyanic, cyls., works...lb. .80 - 1.00
NF, dilute, 2%, 5-lb. bots..lb. .30 - .40

Hydrofluoric, anhyd., cyls., wks. lb. .19 - .19½
dmjn. .....lb. .21 - .23
tanks, works.....lb. .16 - —
80%, rubber dms., works..lb. .08 - .09
48%, rubber dms., works..lb. .12 - —
52%, rubber dms., works..lb. .12½- —
60%, rubber dms., works..lb. .13½- —

Hydrofluosilicic, 30-35%, bbls.lb. .08 - .09

Hydroxyacetic, 70% tech., bbls., non-return, Phila..lb. .064 - —
tanks, Belle, W. Va., acid basis..lb. .065 - —

Hypophosphorous, USP, djns.lb. .75 - .77

Lactic, edible, 50%, bbls., 20 or more..lb. .13363- —
smaller lots.....lb. .13513- .1451
80%, bbls., 5 or less.....lb. .24¼- .24¾
plastic grade, 50%, bbls., 20 or more..lb. .14¼- —
10 or less.....lb. .14¾- .15¼
80%, bbls., 5 or less.....lb. .26 - .26½
tech., dark, 22%, bbls., c.l., works..100 lbs. 4.00 - 4.55
l.c.l., works.....100 lbs. 4.60 - 4.75
cbys., works.....100 lbs. 5.10 - —
44%, bbls., c.l., works.... 100 lbs. 7.75 - 8.25
l.c.l., bbls., works.... 100 lbs. 8.25 - 8.50
cbys., works.....100 lbs. 8.90 - 9.15
light, 22%, bbls., c.l., works. 100 lbs. 3.90 - —
l.c.l., works....100 lbs. 4.15 - —
cbys., works.....100 lbs. 5.15 - —
44%, bbls., c.l., works.... 100 lbs. 7.30 - —
l.c.l., works....100 lbs. 7.55 - —
cbys., works.....100 lbs. 8.55 - —

USP XII, 80%, cbys.....lb. .54 - .57

USP VIII, 70%, cbys.....lb. .62 - .65

Laurent's, bbls.....lb. .63 - —

Lauric, dist., 85%, dms.....lb. No prices
60%, dms.....lb. .32 - .32½

Linseed oil, light, dms.....lb. No prices

Maleic, powd., dms.....lb. .30 - —
Anhydride (see M).

Acid, malic, powd., kgs.....lb. .47 - —

Mandelic, USP, dms., 1,000-lb. lots..lb. 2.05 - —
smaller lots .....lb. 2.10 - 2.30

Mixed, tanks, nitric unit....lb. .05 - .06
sulphuric unit .....lb. .0085- .009

Molybdic, kgs., works.....lb. .95 - 1.10

Monochloracetic, tech., flakes, 96-97%, dms..lb. .17 - .18
purified, flaks, 99%, dms...lb. .21 - .22½

Monosulphonic, bbls. .....lb. 1.50 - —

Muriatic, 18°, cbys., c.l., E. works..100 lbs. 1.50 - 1.70
l.c.l., E. works....100 lbs. 1.90 - 2.90
tanks, works.....ton.18.00 -18.20

20°, cbys., c.l., E. works.... 100 lbs. 1.85 - 2.00
tanks, E. works.....ton.20.00 -21.00

22°, cbys., c.l., E. works.... 100 lbs. 2.35 - 2.50
tanks, E. works.....ton.22.00 -26.00

CP, USP, consumers, cbys. extra..lb. .08 - —
6-lb. bots., extra.....lb. .10 - —
dealers, cbys., extra....lb. .06½- —
6-lb. bots., extra.....lb. .08½- —

Myristic, dist., dms.....lb. No stocks

Naphthenic, 220-230 acidity, dms., extra, works..lb. .12 - —
tanks, works .....lb. .09 - —
230-240 acidity, dms., extra, works..lb. .17 - —
tanks, works .....lb. .14 - —

Neville and Winthers, dms...lb. .73 - —

Nicotinic, USP, dms., works... kilo. 7.00 - 7.30

Nicotinic amide (see Nicotinamide).

Nitric, 36°, cbys., c.l., E. works. 100 lbs. 5.00 - —
l.c.l., 25, E. works.100 lbs. 5.30 - 6.30

38°, cbys., c.l., E. works.... 100 lbs. 5.50 - —
l.c.l., works.....100 lbs. 6.00 - 6.25

40°, cbys., c.l., E. works.... 100 lbs. 6.00 - 6.50
l.c.l., works.....100 lbs. 6.50 - 7.10

42°, cbys., c.l., E. works.... 100 lbs. 6.50 - 7.00
l.c.l., works.....100 lbs. 7.00 - 7.25

CP, USP, consumers, cbys. extra..lb. .13 - —
7-lb. bots., ca., extra...lb. .15 - —
dealers, cbys. extra.....lb. .11½- —
7-lb. bots., ca., extra...lb. .13½- —

Oleic (see Oil, Red).

Oleum (see Acid, sulphuric, fuming).

Oxalic, bbls., c.l., works....lb. .13 - —
10,000 lbs.....lb. .13¼- —
smaller lots.....lb. .14 - —

Palm oil, white, dist., dms..lb. .30½- .31

Para-aminobenzoic, cns.....lb. 1.55 - —

Paranitrobenzoic, cns.....lb. .90 - —

Paratoluidinmetasulphonic, bbls., works..lb. .80 - —

Peanut oil, s.d., tanks, works. lb. No prices

Phenylacetic, bots. .....lb. 1.60 - 2.00

Phosphoric, food grade, 50%, bbls., c.l., works, frt. equald..100 lbs. — - —
cbys., c.l., works, frt. equald..100 lbs. 5.00 - —
l.c.l., works, frt. alld.. 100 lbs. 6.00 - 7.50

75%, bbls., c.l., works, frt. equald..100 lbs. 5.25 - —
cbys., c.l., works, frt. equald..100 lbs. 5.50 - —
l.c.l., frt. alld....100 lbs. 7.75 - 8.75

tanks, works, frt. equald., 100 lbs. 4.65 - —

USP, 100-lb. cbys., c.l.....lb. .10¾- —
10 cbys. to c.l.....lb. .11¼- —
3 to 9 cbys.....lb. .12 - —
single cbys. .....lb. .13 - —
70-lb. cbys. .....lb. .10¾- —
25 cbys. to c.l.....lb. .11¼- —
5 to 24 cbys.....lb. .12 - —
1 to 4 cbys .....lb. .13 - —
dilut., 10%, cbys., djns..lb. .07 - .07¼

Picramic, bgs. .....lb. .65 - .70

Picric, bbls. .....lb. .30 - .31

Propionic, synth., pure, dms., works..lb. .19½- —
tanks, works.....lb. .18½- —
natural, dms., works.....lb. .15 - —
tanks, works.....lb. .14 - —

Pyrogallic, tech., bbls.....lb. No prices

N.F., cryst., dms.....lb. 2.50 - 2.65
resub., dms.....lb. 3.00 - 3.02

Pyroligneous, bbls. incl., ex whse., l.c.l..gal. .41 - —

Ricinoleic, com'l split (see Acid, castor oil, split).

Salicylic, tech., bbls., c.l....lb. .26 - —
100 lbs. to c.l.....lb. .33 - —
smaller lots.....lb. .34 - .42

USP, bbls., c.l.....lb. .25 - —
100 lbs. to c.l. .....lb. .35 - —
smaller lots .....lb. .36 - .44

Sebacic, tech., dms., c.l., works, lb. No stocks

Soybean oil, s.d., dms., works, lb. .32½- .33¼
tanks, works.....lb. No prices

Stearic, double pressed, bgs.lb. .33½- .34¼
single pressed, bgs.....lb. .32 - .34
triple pressed, bgs.....lb. .36¼- .37¼

Succinic, bbls. .....lb. .75 - —

Sulphanilic, CP, bots., works.lb. 1.60 - 1.68
tech., dms., works.....lb. .17 - —

Sulphuric, 90°, cbys., c.l., E. works..100 lbs. 1.35 - 1.40
l.c.l. .....100 lbs. 1.70 - 2.60
tanks, E. works.....ton.13.00 -13.50

66°, cbys., c.l., E. works... 100 lbs. 1.55 - 1.70
tanks, E. works.....ton.16.50 -17.50

98°, tanks, works.....ton.17.50 -18.50

CP, USP, consumers cbys., extra..lb. .08 - —
9-lb. bots., ca., extra...lb. .10 - —
dealers, cbys., extra....lb. .06½- —
9-lb. bots., ca., extra...lb. .08½- —

fuming, 20%, tanks, E. works. ton.19.50 -20.50

Tannic, tech., bbls., dms....lb. .93 - .94

USP, fluffy, bbls., 1,000 lbs.. lb. 1.45 - —
smaller lots.....lb. 1.47 - 1.50
powder, bbls., 1,000 lbs.lb. 1.25 - —
smaller lots.....lb. 1.17 - —

Tartaric, USP, cryst., gran., powd., bbls., 10,000 lbs., 1 ship't..lb. .34½- —
smaller lots, bbls....lb. .35 - —
dms. .....lb. .37 - .38
kgs. .....lb. .35½- —

Thioglycolic, bbls., cbys., basis 100%..lb. 2.00 - 2.50

Tobias, bbls. .....lb. .90 - —

Trichloroacetic, bots. .....lb. 2.00 - 2.05

Tungstic, CP, 100-lb. pkgs...lb. 2.94 - 3.10
pure, 100-lb. kgs.....lb. 2.85 - —

Aconite leaves, dis.....lb. .75 - .80
Root, dis.....lb. 1.20 - 1.25
Aconitine, amorph., bots.....oz. 32.00 -36.00
15-gr. vials.....vial. 1.00 - —
cryst., bots.....oz. 42.00 -48.00
15-gr. vials.....vial. 1.60 - —

Acrylonitrile, dms., c.l., works. lb. .29½- —
l.c.l., works.....lb. .42½- —
tanks, works.....lb. .28½- —

Adeps lanae USP, anhyd., cosmetic, dms., works.lb. .28 - .30
pharmaceutical, dms., works. lb. .26 - .28

Adonis vernalis herb, bls.....lb. .65 - .70

Agar .....lb. 4.00 - 4.25

Agaric, white, bls.....lb. 2.75 - 3.00

Agrimony herb, bls.....lb. .40 - .45

Albumen, blood, dark (see Blood, soluble).
light, dms., l.c.l.....lb. .70 - —
egg, edible, cryst., gran., bbls. lb. 1.70 - 1.73
powd., bbls.....lb. 1.75 - 1.83
tech., cryst., bbls.....lb. 1.10 - 1.30

Alcohol, allyl, dms., c.l., dlvd.lb. .21 - —
l.c.l., dlvd.....lb. .21½- —
tankcars, dlvd.....lb. .20 - —

Amyl ex pentane, dms., c.l., frt. alld., E. of Miss. R. lb. .161 - —
l.c.l., frt. alld.....lb. .171 - —
tanks, frt. alld.....lb. .151 - —
(see also Fusel oil, ref.).

Benzyl, cns.....lb. .83 - —
dms. .....lb. .68 - .73

Butyl, normal, ferment, Ill., Ind. prod., dms., c.l., frt. alld..lb. .26½- —
l.c.l., frt. alld. E....lb. .27 - —
tanks, frt. alld. E....lb. .25 - —
tankwagon, frt. alld..lb. .25½- —
other production, dms., c.l., frt. alld. E..lb. .26½- —
l.c.l., frt. alld. E....lb. .27½- —
tanks, frt. alld. E....lb. .25 - —
synthetic, dms., c.l., frt. alld. E..lb. .15½- —
l.c.l., frt. alld. E.....lb. .16 - —
tanks, frt. alld. E.....lb. .14½- —
Normal butyl alcohol prices in West, ½c per lb. higher.

secondary, dms., c.l., dlvd..lb. .1050- .1100
l.c.l., dlvd. .....lb. .1100- .1210
tanks, dlvd. .....lb. .0950- .1100
tertiary, denat., dms., c.l..lb. .1250- —
l.c.l., dms. .....lb. .13 - —
tanks .....lb. .11 - —

Capryl, dms., c.l., works....lb. .17½- —
l.c.l., works.....lb. .18½- —
tanks, works.....lb. .16 - —

Cetyl, com., CP., fiber ctns., 1,000 lbs..lb. 2.25 - —
smaller lots.....lb. 2.30 - 2.35
Cinnamic, bots.....lb. 3.00 - 3.05
Denatured, CD14, dms., c.l., works, E..gal. .89½- —
l.c.l., works, E.....gal. .92½- .95½
tanks, E., dlvd.....gal. .85½- —

Tankcar sales require written authorization by Alcohol Tax Unit.

SD1, 190 pf., dms., c.l., E. works..gal. .89½- —
l.c.l., works, E.....gal. .92½- .95½
tanks, E. works.....gal. .82½- —
Anhydrous 7c. per gal. higher

SD2B, dms., c.l., wks., E.gal. .89 - —
l.c.l., works, E.....gal. .92 - .95
tanks, E. works.....gal. .83 - —

SD23G, dms., c.l., works.gal. .96½- —
l.c.l., works.....gal. .96½- 1.00
tanks, works.....gal. .86½- —

SD23H, dms., c.l.....gal. .895 - .920
l.c.l., works, E.....gal. .928 - .975
tanks, E works.....gal. .835 - .860

SD29, denatured, with acetaldehyde, dms., c.l., E. works. gal. .90 - —
l.c.l., works, E.....gal. .94 - .99
tanks, E. works.....gal. .83 - —

When any of the several SD29 denaturants is supplied by the purchaser, the prices are the same as those of SD2B plus 1½c. per gal. denaturing charge.

Special solvent, dms., c.l., works, E...gal. .90 - —
l.c.l., works, E.....gal. .948 - .1008
tanks, E. works.....gal. .845 - .900

Tankcar sales require written authorization by Alcohol Tax Unit.

Diacetone, acetone-free, dms., c.l., dlvd..lb. .12½- .13
l.c.l., dlvd.....lb. .13 - .13½
tanks, dlvd.....lb. .11¼- —
tech., dms., c.l., dlvd.....lb. .12 - —
l.c.l., dlvd.....lb. .12½- —
tanks, dlvd.....lb. .10½- .11

Ethyl, 190 pf., dms., c.l., works. gal.18.01 - —
l.c.l., works.....gal.18.66 -18.19
tanks .....gal.17.94 - —
absolute, dms., c.l., works.gal.18.08 - —
l.c.l., works .....gal.18.12 -18.17
tanks .....gal.18.01 - —

Ethylhexyl, dms., c.l., works.lb. .25 - —
l.c.l., works .....lb. .26 - —
tanks, works .....lb. .24 - —

Furfuryl, tech., cns., works.lb. .35 - —
dms., c.l., works.....lb. .23½- —
l.c.l., works.....lb. .25 - —
tanks, works .....lb. .19 - —

Isoamyl (see Carbinol, isobutyl).

Isobutyl, refd., dms., works.lb. .13 - —
tanks, works .....lb. .12 - —

Isopropyl, refd., 91%, dms., incl., c.l., dlvd..gal. .41 - .44½
l.c.l., dlvd.....gal. .44 - .47½
tanks, dlvd.....gal. .37 - .38
99%, dms., incl., c.l., dlvd.gal. .44 - .50½
l.c.l., dlvd.....gal. .47 - .47½
tanks, dlvd.....gal. .41 - —

Methyl (see Methanol).

Methylamyl (see Carbinol methylisobutyl).

Octyl, perfumer's grade, bots.lb. 4.00 - 4.25

Phenylethyl, dms. .....lb. 2.30 - 2.50

Polyvinyl, type A, fiber-pack, Niagara Falls..lb. .68 - .70
type B, fiber-pack, same basis. lb. .80 - .82

Propyl, normal, dms., works.gal. .82 - —
tanks, works .....gal. .75 - —

Tetrahydrofurfuryl, cns., Cedar Rapids, Ia..lb. .35 - —
dms., c.l., Waverly, N. Y..lb. .40 - —
l.c.l., same basis.....lb. .50 - —

Aldol, dms., works.....lb. .15 - —
denaturing grade, dms....gal. 1.80 - —

Aletris root, bgs.....lb. 2.00 - 2.25

Algarobilla, c.l., ex dock.... long ton. No prices.

Algarobilla price based on ocean frt. at $12 and $1 insurance per long ton.

Algin, bbls., fib. dms.....lb. .76 - 1.00

Alizarin (see Red, alizarin).

Alkanet, root, bgs.....lb. .85 - .90

Allspice, Mexican, futures, bgs., lb. .17 - .17½

Allyl bromide, cbys., 5,000 lbs., works..lb. .90 - —
smaller lots, works.....lb. 1.05 - 1.10

Chloride, dms., c.l., dlvd....lb. .13½- —
l.c.l., dlvd. .....lb. .14 - —
tanks, dlvd. .....lb. .12½- —

Aloe, Cape, cs. ..... lb. .42 - .45
Curacao, kgs. ..... lb. .42 - .45
Socotrine, kgs. ..... lb. .47 - .49
Alsin, bbls., dms., kgs. ..... lb. 4.50 - 4.80
Alphanaphthol, bbls. ..... lb. .88 - —
Alphanaphthylamine, bbls. ..... lb. .35 - —
Alphanaphthylthiourea, fib. dms., works, frt. alld. .. lb. 4.00 - 4.40
Alphapicoline, ret. dms., works, frt. equald. .. lb. .24 - .37½
Alphapinene, wks., South, tanks, gal. 1.15 - —
Alphaterpineol, dms., c.l., works. lb. .1840- —
l.c.l., works ..... lb. .1900- —
tanks, works ..... lb. .1200- —
Alphatocopherol, amp. ..... gram. .90 - 1.00
Althea root, NF, peeled, bls. .. lb. .40 - .45
Alum, ammonia, burnt, USP, bbls., kgs. .. lb. .16 - .18
gran., bbls., works .... 100 lbs. 4.00 - —
lump, bbls., works .... 100 lbs. 4.25 - —
powd., bbls., works .... 100 lbs. 4.40 - —
Potash, gran., bbls., works .... 100 lbs. 4.25 - —
lump, bbls., works .... 100 lbs. 4.50 - —
powd., bbls., works .... 100 lbs. 4.65 - —
Potash-chrome, bbls. ..... lb. .12½- .15
Soda, bbls., c.l., works .. 100 lbs. 3.25 - —
l.c.l., dlvd. ..... 100 lbs. 4.25 - 5.00
Alumina, classified, grade, grd., kgs., works .. lb. .85 - .87
top grade, ground, kgs., works. lb. .60 - .67
unclassified, ground, kgs., works .. lb. .10½- .40
Acetate, basic solution, 24%, bbls., l.c.l., works .. lb. .11 - —
20%, bbls., l.c.l., works .. lb. .10 - —
Chloride, anhyd., com'l, dms., c.l., works .. lb. .10 - .11
l.c.l., works ..... lb. .10¼- —
cryst., com'l, dms., c.l., works. lb. .06 - —
l.c.l., works ..... lb. .06½- .09¾
solution, 32 deg., cryst., c.l., works .. lb. .02¾- —
l.c.l., works ..... lb. .03¼- —
Fluoride, tech., bbls. ..... lb. .25 - —
Formate, solution, 12-20° Be, bbls., c.l., works, f.o.b. equaled Phila. and Chi. lb. .09½- —
l.c.l., works, same basis. lb. .10 - —
Hydrate, heavy, bgs., c.l., works .. lb. .024 - .031
l.c.l., works ..... lb. .035 - .040
light, bgs., dlvd. ..... lb. .14½- —
bbls., dlvd. ..... lb. .15 - —
Hydroxide, gel tech., min. 15% lbs. or more, f.o.b. ship't point .. lb. .03 - .03½
ton lots, same basis .. lb. .03¼- .03¾
smaller lots, same basis. lb. .03¾- .04
9-9½% Al_2O_3, fib. dms., works. lb. .17¾- —
contract, works ..... lb. .16¾- —
14-15% Al_2O_3, fib. dms., Al (OH_3), dms., 10,000 wks. .. lb. .20¾- —
contract works ..... lb. .19¾- —
dried, USP XII, fib. dms., works .. lb. .78 - —
contract, works ..... lb. .75 - —
powder, tech. (see Alumina hydrate).
USP IX, bbls., dms. ..... lb. .18 - .17
Laurate, precip., bbls. ..... lb. .25 - .30
Naphthenate, 1.7% Al, 50-gal. dms., works .. lb. .19 - —
Oleate, dms., contract ..... lb. .24½- —
Resinate, precip., dms. ..... lb. .19½- —
Stearate, dibasic, ctns., c.l. .. lb. .45 - —
l.c.l. ..... lb. .46 - —
monobasic, ctns., c.l. ..... lb. .45 - —
l.c.l. ..... lb. .46 - —
tribasic, ctns., c.l. ..... lb. .50 - —
less ton quantities ..... lb. .52 - —
Sulphate, com'l, bgs., c.l., wks., frt. equald. .. 100 lbs. 1.15 - 1.30
l.c.l., works, frt. equald. .. 100 lbs. 1.40 - 1.50
bbls., c.l., works, frt. equald. 100 lbs. 1.55 - 1.60
l.c.l., works, frt. equald. .. 100 lbs. 1.95 - 2.00
iron-free, bgs., c.l., works .. 100 lbs. 1.95 - 2.25
l.c.l., works ..... 100 lbs. 2.35 - 2.50
Trihydrate, heavy (see Alumina hydrate).
Aluminum, 96-99%, c.l. ..... lb. .15 - —
l.c.l. ..... lb. .15 - .16
paste, lining, extra fine, 200-lb. dms. .. lb. .56 - .60
ink, 150-lb. dms. ..... lb. .71 - —
standard, 200-lb. dms. ..... lb. .38 - —
lining, extra fine, 150-lb. dms. lb. .56 - —
litho, 150-lb. dms. ..... lb. .60 - —
standard, 200-lb. dms. .. lb. .62 - —
rubber comp., 200-lb. dms. .. lb. .42 - —
unpolished, stand., dms. .. lb. .38 - —
varnish, stand., 200-lb. dms. .. lb. .42 - —

Aluminum powder and paste prices are f.o.b. shipping point. Add 1c. per lb. for 100-lb. drm., 1½c. per lb. for 50-lb. drm., 3c. per lb. for 10-lb. can, and 5c. to 12c. per lb. for smaller containers. Deduct 1c. per lb. for single shipment of 400 to 1,499 lbs., 2c. for 1,500 to 4,999 lbs., 3c. for 5,000 to 20,000 lbs., and 4c. for 20,000 lbs. or more. Where destination is within the continental U. S., a deduction equivalent to the lowest available common carrier, transportation rate will be made from sellers' invoice on orders of 200 lbs. or over.

Ambergris, gray, tins ..... oz. 5.75 - 12.00
Aminoethylpropanol, cns., dms., works .. lb. .50 - .60
Aminouvrine, bots., dms. ..... lb. 4.50 - 4.75
Ammonia acetate, reagent, crystals, bbls. .. lb. .34 - —
purified, bbls. ..... lb. .32 - —
Anhydrous, fertilizer, tankcars, works, frt. equald. .. ton. 59.00 - —
pure, cyls. ..... .14½- —
refrigeration, tanks, works .. ton. 61.50 - —
dms., c.l. ..... lb. .02¼- .03¼
l.c.l. ..... lb. .02½- .03½
tanks, works (NH_3 content)). ton. 65.00 - —
Benzoate, USP, dms., kgs., 4,000 lbs., up, frt. alld. .. lb. .43 - —
smaller lots, frt. alld. .. lb. .44 - .47
Biborate, gran., powd., bbls., c.l., works .. ton. 32.00 - —
ton lots, works ..... ton. 338.50 - —
less ton lots, works .... ton. 343.50 - —
Bicarbonate, dms., c.l. ..... lb. .0564- —
Bichromate, bbls., works .... lb. .26 - .30
Bifluoride, bbls. ..... lb. .15 - .15¾
Bromide, gran., NF, bbls. .... lb. .28 - —
dms. ..... lb. .29 - .32
Powdered ammonia bromide 10c. per lb. higher.
Carbonate, USP, lump, dms. lb. .03¾- .03¾
cane ..... lb. .14¾- .17¾
powdered, 1c. per lb. higher.
Chloride, tech. (see Ammoniac, sal).
USP, gran., bbls., dms., kgs., lb. 13 - .15

Ammonia citrate, dibasic, bbls. lb. .75 - —
dms. ..... lb. .80 - .85
Fluoride, bbls. ..... No stocks.
Hydroxide (see Ammonia, aqua).
Hypophosphite, NF, dms. .... lb. 1.25 - 1.27
jars ..... lb. 1.30 - 1.35
Iodide, NF, jars ..... lb. 3.90 - 3.96
Linoleate, 50%, anhyd., bbls. lb. .12 - —
Molybdate, c.p., cryst., kgs. lb. 1.26 - 1.30
fine cryst., bbls., kgs. .... lb. .84 - .87
purified, dms. ..... lb. 1.10 - 1.13
Nitrate, fertilizer grade, Canadian, 32.5% nitrogen, bgs., same N unit price, delivered, as Ammonia sulphate, bgs., c.l., shipping point .... ton. 57.00 - —
bulk, same basis ..... ton. 51.00 - —
tech., bgs., works .... 100 lbs. 4.35 - 4.50
bbls., works ..... 100 lbs. 4.55 - —
Nitrate - limestone, 20.5% N. bgs., Hopewell, Va. .. ton. 33.00 - —
Oleate, dms. ..... lb. .14 - —
Oxalate, fine gran., bbls. .... lb. .23 - —
dms. ..... lb. .25 - .29
Pentaborate, gran., bbls., c.l., works .. ton. 230.00 - —
ton lots, works ..... ton. 248.50 - —
less ton lots ..... ton. 253.50 - —
Ammonia pentaborate powder, $10 per ton higher.
Perchlorate, kgs. ..... lb. No stocks
Persulphate, kgs. ..... lb. .25½- .28½
Phosphate, dibasic, NF V, bbls., kgs. .. lb. .37 - .39
tech., bgs., c.l., works .. lb. .07 - —
l.c.l., works ..... lb. .07¾- —
monobasic, pure, bbls. .... lb. .39 - .41
tech., bgs., c.l., works .. lb. .07 - —
l.c.l., works ..... lb. .07¾- .09¾
Salicylate, NF, dms., kgs. .. lb. 1.15 - 1.18
Silicofluoride, bbls. ..... lb. .15 - .18
Stearate, anhydrous, dms. .. lb. .34 - —
paste, dms. ..... lb. .06½- —
Sulphamate, bbls., dms., works. lb. .18 - .20
Sulphate, bulk, producing ovens .. ton. 30.00 - —
Sulphide, liquid, 40-45%, basis 100%, dms., c.l., works .. lb. .09 - —
l.c.l., dlvd. ..... lb. .15 - —
tanks, dlvd. ..... lb. .07½- —
red, 45%, cbys., works .... lb. .08 - —
dms., works ..... lb. .06 - —
yellow, 33%, cbys., works .. lb. .08 - —
dms., works ..... lb. .06 - —
Sulphocyanide, pure, bbls. .. lb. .60 - .65
tech., bbls. ..... lb. .17 - .19
Thiocyanate (see Ammonia sulphocpanide).
Thioglycollate, highly purified, 100% basis, bbls. .. lb. 7.10 - 8.25

Ammoniac gum (see Gum, ammoniac).
Sal, gray, bbls., c.l., works .... 100 lbs. 6.95 - 7.10
l.c.l., works ..... 100 lbs. 7.35 - 7.50
white, gran., bbls., c.l., works. 100 lbs. 4.75 - —
l.c.l., same basis. 100 lbs. 5.00 - —
Amyl acetate, sx fusel oil, tech., dms., c.l., dlvd. .. lb. .25½- —
l.c.l., dlvd. ..... lb. .26½- —
tanks, dlvd. ..... lb. .24 - —
ex-pentane, dms., c.l., frt. alld. E. of Miss. R. .. lb. .22 - —
l.c.l., same basis ..... lb. .23 - —
tanks, same basis ..... lb. .21 - —
Alcohol (see Alcohol, amyl).
Butyrate, dms. ..... lb. .90 - 1.00
Chloride, mixed, tech., dms., c.l., works .. lb. .07 - —
l.c.l., works ..... lb. .08 - —
tanks, works ..... lb. .06 - —
Ether, dms., c.l., works ..... lb. .095 - —
l.c.l., works ..... lb. .102 - —
tanks, works ..... lb. .085 - —
Nitrite, USP, bots. ..... lb. 1.72 - 1.95
Mercaptan, dms., works ..... lb. 1.10 - —
Salicylate, prime, bots. ..... lb. .87 - —
dms. ..... lb. .77 - .81
Stearate, dms., works ..... lb. .42 - .45½
Anethol, com'l, dms., works .. lb. .057 - .065
NF, dms. ..... lb. .80 - 1.20
Angelica dom., atropurpurea root, bls. .. lb. 1.30 - 1.40
imported, natural, bls. ..... lb. 2.45 - 2.55
Angostura bark, bls. ..... lb. .65 - .66
Anilin oil, dms., c.l., works, frt. alld. .. lb. .12 - —
l.c.l., works, frt. alld. .. lb. .13 - —
tanks, works, frt. alld. .... lb. .11 - —
Salt, dms., works ..... lb. .22 - .24
Anise, Argentine, bgs. ..... lb. .31 - .32
Chinese, Star ..... lb. .19½- .20
Cyprus, bgs. ..... lb. .31 - .32
Mexican, bgs. ..... lb. .33 - .34
Syrian, bgs. ..... lb. .32 - .33
Turkish, bgs. ..... lb. No stocks
Anisic aldehyde, dms. ..... lb. 2.60 - 3.00
cns., bots. ..... lb. 2.90 - 3.25
Annatto, paste, bxs. ..... lb. .34 - .39
seed, bgs. ..... lb. .14 - .14½
Anthracene, 80-85%, bbls., works, lb. .09 - —
90%, bbls., works ..... lb. .81 - —
Anthraquinone, 99.5%, bbls. .... lb. .70 - —
Antimony butter (see Antimony chloride).
Chloride, solut., cbys. ..... lb. .17 - —
Metal, bulk, c.l., mines ..... lb. .28½- .29¾
Needle, Bolivian, brown, 67% cs. .. lb. No prices.
Chinese, black, 70%, cs. .... lb. No prices.
Oxide, ceramic grade, bgs., c.l., works .. lb. .23 - —
l.c.l., works ..... lb. .24¾- .26½
c.l., dlvd. ..... lb. .24 - —
l.c.l., dlvd. ..... lb. .24½- .25
paint grade, bgs., c.l., works. lb. .23 - .24
l.c.l., works ..... lb. .23¾- .25½
c.l., dlvd. ..... lb. .24 - —
l.c.l., dlvd. ..... lb. .24¾- .26
Salt, 65%, bgs., c.l., dlvd. E. of Miss. River .. lb. No stocks.
Sulphide, 65-70%, bbls., c.l., works .. lb. .17½- —
l.c.l., works ..... lb. .20 - .21
Antipyrine, bbls., kgs., ton .... lb. 2.00 - —
smaller lots ..... lb. 2.10 - 2.20
Apomorphine, bots. ..... oz. 23.20 - 23.70
Archil extract, bbls. ..... lb. No stocks.
Areca nuts, powd., bbls. ..... lb. .25 - .26
Arecoline hydrobromide, bots. oz. 6.10 - 7.10
Argols, min. 70%, bgs., shipment port, 100 kilos (100% purity). 35.00 - 36.00
Arnica flowers, bbls. ..... lb. 1.00 Nom.
Arrowroot, powd., bgs., bbls. .lb. .14 - .15
Arsenic, chloride (arsenous), bots. lb. 1.55 - —
Metal, lump, c.l. ..... lb. No prices.
Sulphide, yellow, bbls. ..... lb. No stocks.
Trioxide (see Acid, arsenous).
White, powd., bbls., c.l. ..... lb. .06 - —
l.c.l. ..... lb. .07 - .08
Asafetida, cs. ..... lb. .65 - .70
powd., bbls., dms. ..... lb. .72 - .77
Asbestine (see Talc, N. Y. fibrous).
Asbestos, fiber, 5D and 5K, bgs., c.l. (30 tons), Cana. mines, ton. 49.50 - —
5R, bgs., c.l. (30 tons), same basis .. ton. 44.00 - —
6D, bgs., c.l. (30 tons) same basis .. ton. 32.00 - —
7D, bgs., c.l., same basis. ton. 28.50 - —
7F, bgs., c.l., same basis. ton. 25.50 - —
7K, bgs., c.l., same basis. ton. 19.00 - —
7M, bgs., c.l., same basis. ton. 16.50 - —
7R, bgs., c.l., same basis. ton. 15.50 - —
Asphaltum, Barbados, Dunellen, N. J. .. lb. .16¾- —
California, dms., c.l. ..... ton. 36.40 - —
l.c.l. ..... ton. 41.40 - —

Asphaltum, Cuban, A, bulk, c.l. ton. 60.00 - —
l.c.l. ..... ton. 90.00 - —
B, bulk, c.l. ..... ton. 38.50 - —
l.c.l. ..... ton. 55.00 - —
Egyptian ..... ton. No stocks.
Gilsonite, brilliant black, selects, 340° F. fusing point, bgs., mines .. ton. 30.00 -32.00
270-295° fusing point, bgs., mines .. ton. 30.50 - —
seconds, 300-320° F. fusing point, not uniform, bgs., mines .. ton. 25.50 - —
jet, bgs., ton lots, gross weight, Colo. mines .. ton. 30.50 - —
Manjak, No 10, crude, dms., works .. lb. .06¾- .12
process form, bgs., works .. lb. .05¾- .12
jet, bgs., 2,000 lbs., gross weight, Colo mines .. ton. 30.50 - —
Mexican, refd., dms., f.o.b. Tampico, Mex. metric ton. 27.50 - —
South American, refd., dms., c.l., N. J. Refy .. ton. 22.00 -26.00
l.c.l., same basis ..... ton. 34.00 -35.00
tanks, same basis ..... ton. 15.00 - —
Atropine, bots. ..... os. 9.85 - —
Sulphate, bots. ..... os. 7.35 - —

B

Balm of Gilead buds, bgs. ..... lb. 2.25 - 2.50
Barbasco root (see Cube root).
Barberry root bark, bgs. ..... lb. .78 - .80
Barbital, dms. ..... lb. 3.50 - 3.60
sodium, dms. ..... lb. 3.75 - 3.85
Barium carbonate, natural, 90% through 200 mesh, bgs., c.l., works .. ton. - - —
precip., bgs., 10 tons and up, works .. ton. 67.50 -75.00
small lots, works .... ton. 74.50 -82.00
Chlorate, kgs., works ..... lb. .27½- .31
Chloride, CP, cryst., bbls. .... lb. .25 - .27
pure, bbls., kgs. ..... lb. .10 - .12
tech., cryst., bgs., c.l., works. ton. 90.00 - —
l.c.l., works ..... ton. 90.00 - —
Dioxide, dms., c.l., works .... lb. .10 - —
l.c.l., works ..... lb. .12 - .13
Fluoride, bbls. ..... lb. .18 Nom.
Hydrate, crystals, bbls. ..... lb. .06¼- .07½
Hydroxide, bbls., works ..... lb. .13 - .16
Iodide, bots. ..... lb. 5.12 - —
Monoxide (see Oxide).
Nitrate, bbls., c.l., works ... lb. .09½- .11¼
l.c.l., works ..... lb. .10 - .11¼
Oxide, dms., c.l., works ..... lb. .11½- .12
l.c.l., works ..... lb. .14 - .15
grd. dms., l.c.l., works .... lb. .13 - .17
Peroxide (see Dioxide).
Silicofluoride, bbls. ..... lb. .17 - .19
Stearate, ctns., 1 ton up .... lb. .50 - —
smaller lots ..... lb. .51 - —
Sulphate, tech. (see Barytes, and Blanc fixe).
X-ray, bbls. ..... lb. .10 - .10½
kgs. ..... lb. .12½- —
Sulphide, dms., works ..... ton. 45.50 -64.00
Barytes, water-grd., paper bgs., c.l., St. Louis ..... ton. 31.10 - —
l.c.l., same basis ..... ton. 32.10 - —
ex whse., N. Y. ..... ton. 41.95 - —
Southern, off-color, bgs., mines ton. 19.00 - —
95.75%, bgs., mines ..... ton. 20.00 - —
Ore, approx. 94% $BaSO_4$, bulk, mines .. ton. 8.50 -12.50
Bay leaves (see Laurel leaves).
Barberry bark, bgs. ..... lb. .12 - .13
Belladonna leaves, bls. ..... 2.00 Nom.
Root, bls. ..... lb. 1.50 Nom.
Bauxite, bulk, mines ..... ton. 8.50 -10.00
Bentonite, 200 mesh, bgs., works. ton. 11.00 - —
325 mesh, bgs., works .... ton. 16.00 - —
Benzaldehyde, NF, dms. ..... lb. .70 - 1.20
tech., cbys., dms. ..... lb. .42 - .55
Benzene (see Benzol).
Bensidin base, bbls. ..... lb. .77 - —
Benzocaine, cns. ..... lb. 3.50 - 3.85
Benzol (benzene), pure, nitration and 90%, dms., works, frt. alld. up to 2c. .. gal. .22 - —
tanks, E. of Omaha, same basis .. gal. .17 - —
W. Coast, Minnequa, Colo., same basis .. gal. .17 - —
Benzophenone, dms. ..... lb. 1.15 - 1.25
Benzoyl chloride, cbys. ..... lb. .25 - .28
Peroxide, pure, gran., fib. ctns., works .. lb. .90 - 1.05
Benzyl acetate, f.f.c., cns. ..... lb. .75 - —
dms. ..... lb. .60 - .65
Alcohol (see Alcohol, benzyl).
Benzoate, f.f.c., cns., dms. .. lb. 1.00 - 1.15
Chloride, tech., cbys., works, frt. equald. .. lb. .20 - —
refined, cbys. ..... lb. .21 - —
Cinnamate, cns. ..... lb. 4.00 - 6.25
Formate, cns. ..... lb. 2.10 - 3.50
Propionate, bots. ..... lb. 1.30 - 2.45
Salicylate, bots. ..... lb. 1.80 - 2.10
Benzylidinacetone, bots. ..... lb. 2.00 - 2.70
Benzylisoeugenol, bots. ..... lb. 9.50 - —
Berberine bisulphate, cns. ..... lb. No stocks.
Hydrochloride, bots. ..... lb. No stocks.
Sulphate, cns. ..... lb. No stocks.
Berberis root, bls. ..... lb. .30 - .35
Betanaphthol, resublimed, dms., works .. lb. .55 - .60
tech., bbls., c.l., works .... lb. .23 - .25
l.c.l., works ..... lb. .28 - .29
Benzoate, fib. dms., works .. lb. 1.75 - —
Salicylate, dms. ..... lb. 5.00 - —
Betanaphthylamine, tech., works, lb. .59 - —
Betagammapicoline, dms., c.l., works .. lb. .24½- —
l.c.l., works ..... lb. .25 - —
Betapicoline, 90%, ret. dms., c.l., works .. lb. 1.60 - —
l.c.l., works ..... lb. 1.85 - —
95%, dms., works ..... lb. 2.05 - —
98-99%, works ..... lb. 2.30 - —
Beth root, bls. ..... lb. .55 - .60
Bismuth chloride, jars ..... lb. 4.25 - —
Citrate, USP VIII, jars ..... lb. 2.97 - —
Hydroxide, bots., dms. ..... lb. 3.80 - 3.91
Metal, ton lots ..... lb. 2.00 - —
Nitrate, cryst., cns. ..... lb. 1.60 - —
Oxychloride, cns., bots., dms. lb. 3.60 - 3.80
Oxide, anhydrous, bots., dms. lb. 4.20 - 4.31
Subcarbonate, USP, dms. .... lb. 2.60 - 2.63
Subgallate, NF, fib. dms. .... lb. 2.45 - 2.48
Subiodide, fib. dms. ..... lb. 4.18 - —
Subnitrate, USP, powd., dms. lb. 2.15 - 2.18
Subsalicylate, USP, dms. .... lb. 3.05 - —
Sulphocarbolate, fib. dms. .... lb. 4.05 - —
Bismuth-ammonia citrate, USP, powd., dms. .. lb. 3.70 - —
Black, acetylene, bgs., c.l., works. lb. .14 - —
l.c.l., works ..... lb. .15 - —
Bone 1A, bgs., bbls., c.l., frt. alld dest. .. lb. .19½- —
1, bgs., bbls., c.l., same basis. lb. .17½- —
2, bgs., bbls., c.l., same basis. lb. .16 - —
3, bgs., bbls., c.l., same basis. lb. .15 - —
4, bgs., bbls., c.l., same basis. lb. .14 - —
5, bgs., bbls., c.l., same basis. lb. .11¼- —
6, bgs., bbls., c.l., same basis. lb. .11¼- —
467, bgs., bbls., c.l., same basis .. lb. .11¾- —
Black, bone, 7, bgs., bbls., c.l., same basis .. lb. .14¼- —
8, bgs., bbls., c.l., same basis, lb. .15½- —
490A, bgs., bbls., c.l., same basis .. lb. .06½- —

Bone black l.c.l. prices are ½c. higher than c.l. Pacific coast, ex dock, or whse., prices are 1½c. higher.

Carbon, channel, compressed, beads, bulk, c.l., works lb. .06 - —
bgs., c.l., works ..... lb. .0633- —
l.c.l., works ..... lb. .07 - —
dlvd. or whse. ..... lb. .103 - —
uncompressed, regular, bgs., c.l., works .. lb. .074 - —
bgs., ctns., l.c.l., dlvd. or whse. .. lb. .11¾- —
furnace, HMF, bgs., c.l., works .. lb. .05 - —
ctns., l.c.l., whse. ..... lb. .09 - —
SRF, bgs., c.l., works .... lb. .06½- —
ctns., l.c.l., whse. ..... lb. .075 - —
Thermatonic, bgs., c.l., works, La. .. lb. .04 - —
l.c.l., whse., Trenton, N. J., lb. .06½- —
Charcoal (see C).
Graphite (see G).
Iron oxide, magnetic, pure, bgs., l.c.l., works .. lb. .09 - —
Lamp, 1, ctns., c.l., works .. lb. .06½- —
l.c.l., works ..... lb. .09 - —
2, ctns., c.l., works ..... lb. .10 - —
l.c.l., works ..... lb. .11 - —
2A, ctns., c.l., works ..... lb. .12 - —
l.c.l., works ..... lb. .13½- —
3, ctns., c.l., works ..... lb. .14½- —
l.c.l., works ..... lb. .15½- —
4, ctns., c.l., works ..... lb. .16½- —
l.c.l., works ..... lb. .17½- —
5, ctns., c.l., works ..... lb. .20 - —
l.c.l., works ..... lb. .20 - —
6, ctns., c.l., works ..... lb. .21½- —
l.c.l., works ..... lb. .27½- —
7, ctns., c.l., works ..... lb. .37½- —
l.c.l., works ..... lb. .36½- —
Mineral, vine type, bgs., l.c.l., works .. lb. .03 - —
Vine A, bgs. ..... lb. .03¾- .04
B, bgs. ..... lb. .05¾- .06
Black ash (see Barium sulphide).
Black dyes (see Dyes).
Black haw root bark, bls. ..... lb. .80 - .85
Tree bark, bls. ..... lb. .38 - .43
Black Indian hemp root, bls. .. lb. .55 - .60
Blanc fixe, dry, by-product, bgs., c.l., works .. ton. 67.50 - —
l.c.l. works ..... ton. 72.50 - —
direct process, bgs., l.c.l., N.Y. whse .. ton. 95.00 - —
barrels, N.Y. whse. ton. 100.00 - —
bgs., c.l., works ..... ton. 77.50 - —
l.c.l., works ..... ton. 82.50 - —
bbls., c.l., works ..... ton. 82.50 - —
l.c.l., works ..... ton. 87.50 - —
soluble, bgs., l.c.l. ..... lb. .17 - —
pulp, 60%, bbls., c.l., works. ton. 55.00 - —
l.c.l., same basis .... ton. 60.00 - —
Bleaching powder, dms., c.l., works .. 100 lbs. 2.75 - 3.00
l.c.l., works ..... 100 lbs. 3.25 - 3.75
bbls., c.l., works ..... 100 lbs. 3.25 - —
l.c.l., works ..... 100 lbs. 3.75 - —
Blood, dried, 15-16½% ammo., bgs. .. unit-ton. 3.00 - —
high-grade, unground, 16-17% ammon., bulk, Chicago. unit-ton. 3.00 - —
soluble, bgs., l.c.l. ..... lb. .17 - —
Bloodroot, bls. ..... lb .65 - .70
Blue, alkali, dry, bbls., dlvd. N. of Tenn. and N. C., E. of Miss. River, including St. Paul, Minneapolis, Davenport, Rock Island, St. Louis. lb. 1.90 - —
toner bbls., same basis .... lb. 1.10 - —
Celestial, bbls., same basis .. lb. .10 - .12
Chinese, bbls., same basis .. lb. .36 - —
Cobalt, genuine, bbls., same basis .. lb. 4.90 - —
imitation (see Blue, ultramarine).
Copper, phthalocyanin, full strength, bbls., same basis. lb. 3.50 - 3.75
30%, bbls., same basis .. lb. 3.00 - —
green shade, bbls., same basis. lb. 4.50 - 4.90
Iron (see Blue, Chinese, Milori, Potash Prussian, and Soda).
Milori, bbls., same basis .... lb. .36 - —
Molybdated, Victoria, bbls., same basis .. lb. 3.15 - —
Peacock, fugitive, 100% color strength, same basis .. lb. .52 - —
permanent toner, green shade, molybdic, bbls., same basis. lb. 3.50 - —
tungstic ..... lb. 4.00 - —
Potash, CP, bbls., same basis. lb. .42 - —
Prussian, bbls., same basis .. lb. .42 - —
soluble, bbls., same basis. lb. .42 - —
Soda, CP, bronze, bbls., same basis .. lb. .39 - —
Ultramarine, cobalt type, dry or pulp, bbls., same basis. lb. .24 - .28
jobbing type, dry, bbls., same basis .. lb. .13 - .14
regular types, dry or pulp, bbls., same basis .. lb. .18 - .19
Victoria, toner, molybdic, bbls. lb. 3.15 - —
tungstic, bbls. ..... lb. 3.30 - 3.55
ink toner, bbls., same basis lb. 1.83 - —
synthetic vehicle, bbls., same basis .. lb. 1.98 - —
Violet toner, molybdic, bbls., same basis .. lb. 1.24 - —
tungstic, kgs., same basis .. lb. 2.10 - —

Blue dry colors, dlvd. prices ½c. higher Ala., Fla., Ga., La. (Shreveport, 1¾c.); Miss., N. C., S. C., Tenn., Tex. (El Paso, 2c.); Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph; 1.6c. higher Pac. Coast: Denver, Pueblo, Salt Lake City, Wichita, frt. equalized with Chicago.

Blue dye sare listed under Dyes.

Blue mass, NF, cns., tubs .... lb. 1.47 - 1.49
powd., bots., cns., dms. ..... lb. 1.50 - 1.52
Bluefag, root, bls. ..... lb. No stocks
Bluestone (see Copper sulphate).
Blue vitriol (see Copper sulphate).
Boldo leaves, bls. ..... lb. .11 - .12
Bone, raw bulk, Chicago .... ton. 75.00 - —
junk, bulk, same basis .... ton. 50.00 -52.00
Meal, raw, 4½% ammon., 50% phos., bgs., E. works .. Chicago, works .. ton. 75.00 - —
steamed, feeding grade, 1% ammon., 60% phos., kgs., E. works .. ton. 70.00 - —
Chicago, works .... ton. 75.00 - —
fertilizer grade, 3% ammon., 50% phos., bgs., E. works ton. 60.00 - —
Chicago, works .... ton. 60.00 - —
Phosphate, defluorinated (see D.).
Precipitated (see Calcium phosphate tribasic precip.).
Boneset leaves, bls. ..... lb. .17 - .18
Borage flowers, bls. ..... lb. .60 - .65

OPD—3-3-1947

GLUCOSE

U. S. P. 45° Baumé. For export we have carload and less than carload quantities, packed in barrels of 660 pounds, available for immediate shipment without requiring export licenses. Your telegraphic inquiries will receive our prompt attention.

SODIUM PERBORATE

We have on hand both the U.S.P. and Technical grades, packed in barrels of 250 pounds net each.

Both grades are of uniform production, having 10% available oxygen. The U.S.P. grade is made for pharmaceutical products. The Technical grade is adapted for bleaching and is used in some instances as a substitute for hydrogen peroxide.

Whether you require a single barrel or a carload, you will find us in a position to be of immediate service.

WILLIAM D. NEUBERG COMPANY
INCORPORATED
Chemicals
GRAYBAR BUILDING • 420 LEXINGTON AVE. • NEW YORK 17, N. Y.
TELEPHONE LEXINGTON 2-3324
CABLE—"WILNEUBERG"

Borax, tech., 99¼% fine gran., bulk, works..ton.44.50 -47.50
paper bgs., c.l., works, frt. alld..ton.48.50 -51.00
ton lots, ex whse. N. Y. or Chi..ton.66.00 - —
less ton lots, same basis. ton.71.00 - —
bbls., c.l., frt. alld....ton.68.50 - —
ton lots, ex whse., N. Y. or Chi..ton.86.00 - —
less ton lots, same basis. ton.91.00 - —
coarse gran., cryst., paper bgs., c.l., works, frt. alld..ton.53.50 -56.00
ton lots, ex whse. N. Y. or Chi..ton.71.00 - —
less carlots, same basis. ton.76.00 - —
bbls., c.l., works, frt. alld..ton.73.50 - —
ton lots, ex whse. N. Y. or Chi..ton.91.00 - —
less carlots, same basis. ton.96.00 - —
USP, $15 per ton higher.
Bordeaux mixt., bgs., c.l., whse., works, frt. alld..lb. .15 - .22½
l.c.l., same basis.....lb. .16 - .23
Bornyl thiocyanoacetate (see Isobornyl thiocyanoacetate).
Brimstone (see Sulphur).
Bromine, purified, cs., c.l., frt. alld. E. of Rockies..lb. .21 - —
1,000 lbs., frt. alld. E. of Rockies..lb. .23 - —
single pkgs., same basis.lb. .28 - —
Brazilwood extract (see Hypernic).
Bromoform, USP, bots.....lb. 1.50 - 1.70
cbys. .....lb. 1.42 - —
Bromstyrol .....lb. 4.85 - 6.25

Bronze powder, aluminum (see A).
Gold, litho., 100-lb. cns., dms., works..lb. .50 - .60
gold, moulding, 100-lb. cans, dms., same basis..lb. .80 - 1.00
printing ink, 100-lb. cns., dms., same basis..lb. .95 - 1.10
radiator, 100-lb. cns., dms., same basis..lb. .60 - .65
Broomtop, bls. .....lb. .29 - .30
Brown, iron-oxide, pure, precip., cks., works..lb. .10¼- .10½
Metallic, bgs., c.l., works.lb. .02½- .02¾
Sap, crystals, works.....lb. .12 - —
powdered .....lb. .13 - —
Sienna, burnt, American, bbls., works..lb. .06½- .08
pap. bgs., l.c.l., same basis..lb. .04 - .04½
Italian type, bbls., works. lb. .03¾- .03¾
raw, American, bgs., l.c.l., works..lb. .04¾- .05
Italian type, bbls., works lb. .08 - .10
Umber, burnt, American, bbls., works..lb. .06¼- —
Italian-type, bbls., works.lb. .04¾- —
Turkey-type, bgs., c.l., Boston, Bethlehem Easton, Pa.; N. Y..lb. .05 - .05¼
St. Louis, Chicago, Indianapolis, New Orleans..lb. .06¼- —
Minneapolis .....lb. .0560- —
Pittsburgh .....lb. .05¼- —
Los Angeles .....lb. .06¼- —
Portland, San Francisco, Seattle..lb. .05¾- —
ex whse., Los Angeles, lb. .06¼- —
Portland, San Francisco, Seattle..lb. .06 - —
Vandyke, reg., bbls., works.lb. .09 - —
special, bbls., works.....lb. .12 - —

Brucine, cns., 100 ozs.....oz. .36 - .42
Sulphate, cns., 100 ozs.....oz. .32 - .34
Bryonia root, bls.....lb. .45 - .50
Buchu leaves, bls.....lb. 1.05 - 1.10
Buckthorn bark, bls.....lb. .34 - .35
cut and sifted, bbls.....lb. .45 - .46
Berries, bgs.....lb. 1.00 - 1.10
Burdock root, bls.....lb. .57 - .65
Burgundy pitch, dom., dms. incl., wks., South..100 lbs.10.46 -11.10
Butane, indust., tanks, Group 3. gal. .06¼- —
Butyl acetate, normal, ferment, Ill., Ind., prod., dms., c.l., frt. alld. E. of Miss. R..lb. .26½- —
l.c.l., same basis..lb. .27 - —
tanks, same basis...lb. .25 - —
tankwagon, same basis. lb. .25½- —
other production, dms., c.l., same basis..lb. .26½- —
l.c.l., same basis....lb. .27½- —
tanks, same basis....lb. .25 - —
synthetic, dms., c.l., same basis..lb. .15½- —
l.c.l., same basis..lb. .16 - —
tanks, same basis...lb. .14½- —
secondary, dms., c.l., divd. E. of Miss. R..lb. .1210- —
l.c.l., same basis.....lb. .1260- —
tanks, same basis.....lb. .1150- —
Normal butyl acetate, W. of Miss. R., ½c per lb. higher.
Aldehyde, dms., c.l., works..lb. .15½- —
l.c.l., works.....lb. .16½- —
tanks, works.....lb. .14½- —
Ether (see Ether, butyl).
Lactate, dms., c.l., frt. alld. E. of Rockies..lb. .88½- —
l.c.l., same basis.....lb. .89 - —
tanks, same basis.....lb. .87 - —
Laurate, dms., works.....lb. .42 - —
Myristate, dms., works.....lb. No prices

Butyl oleate, ref., dms., l.c.l., works..lb. .35 - —
tech., dms., c.l., works....lb. .34 - —
l.c.l., works.....lb. .24½- .25
Phenylacetate, dms.....lb. 2.00 - 2.25
Phthalate (see Dibutyl phthalate).
Propionate, dms., divd.....lb. .16½- .17
tanks, divd.....lb. .15½- —
Stearate, dms., l.c.l., frt. alld. E. of Rockies..lb. .47½- —
Butyric ether, bots.....lb. 6.50 - 6.60
cns., works.....lb. .65 - .70
dms., works.....lb. .60 - —

C

Cadmium bromide, jars.....lb. 1.66 - 1.91
Iodine, cns.....lb. 4.49 - 4.64
Lithopone (see Yellow).
Metal, ingots or sticks, divd.. lb. 1.75 - 1.80
pat. shapes, cs., divd.....lb. 1.75 - 1.80
Selenide (see Red).
Sulphide (see Yellow).
Caffeine, dms., 100 lbs. or more. lb. 3.75 - 7.00
anhydrous, cms., 100 lbs. or more..lb. 4.00 - —
Citrated, dms., 100 lbs. or more. lb. 2.50 - —
Hydrobromide, bots.....lb. 5.91 - 5.99
Calabar beans, bgs., futures..lb. .65 - .68
Calamus root, natural, dom., bls. lb. .40 - .45
imported, bleached, bls..lb. .70 - .80
Calciferol, in corn oil, dms., 10,000 units or more, works. unit. .10 - —
1,000 to 10,000 units, works. unit. .11 - —
less than 1,000 units, works.. unit. .12 - —
Calcium acetate, bgs., divd.... 100 lbs. 3.00 - 4.00
Arsenate, dealers, dms., c.l., whse., wks., frt. alld..lb. .09 - —
l.c.l., same basis.....lb. .10 - .11
Bromide, N.F., jars.....lb. .65 - .70
Carbide, dms., c.l., works, ton.50.00 - —
divd. .....ton.87.00 -90.00
Carbonate (see Chalk and Whiting).
Chloride, cryst., purified, bbls., jars..lb. .28 - .30
flake, 77-80%, paper bgs., c.l., divd..ton.21.50 -33.00
l.c.l., divd.....ton.31.50 -45.00
liquor, basis 40%, tanks, works..ton. 8.50 - —
solid, 73-76%, dms., c.l., divd. ton.21.00 -37.50
l.c.l., divd.....ton.31.00 -64.15
Calcium chloride prices vary according to zone; minimum prices are for spot delivery C.l. prices for flake in paper bags, $2.50 per ton; for burlap bags, drums, $3.50 per ton over paper bags.
Cyanide, dms., delivered E. of Rockies..lb. .20 - .40
Gluconate, USP, bbls.....lb. .59 - .65
cns. .....lb. .76 - .82
Calcium, gluconate, AA grade, 7c. per lb. higher.
Hydride, dms., works.....lb. .90 - —
Glycerophosphate, N.F., fib. dms..lb. 1.90 - —
Hypochlorite, 100-lb. dms., divd. E. of Rockies..dm.24.00 -28.50
cans, 45-lb. cases, same basis. cs.19.75 -21.50
Iodide, jars .....lb. 4.12 - —
Lactate, USP, powd., dms...lb. .40 - .42
Laurate, bbls. .....lb. .28 - .30
Mandelate, USP, dense, fluffy, works, dms..lb. 2.05 - 2.30
Naphthenate, 5% Ca, 50-gal. dms..lb. .25½- .26½
Pantothenate, dex., 100-gram bots, works..per gram. .10 - .12
Phosphate, feeding grade, bgs., works..ton.75.00 - —
food grade, bbls., 10 or over, works..lb. .07 - .07½
less than 10, works.....lb. .06 - .10
medicinal, dibasic, bgs. 100 lbs.11.40 -18.00
monobasic, cryst., bgs., c.l., works, frt. equald..lb. .05¾- —
l.c.l., frt. equald.....lb. .06 - .06½
tribasic, bbls., c.l., works..lb. .0635- —
bgs., l.c.l., works.....lb. .0645- .068
Phytate, bgs., works.....lb. .16 - .17
Resinate, precip., 5.8% Ca, 100-lb. dms..lb. .19 - —
Silicate, hydrated, c.l., bgs., works..lb. .05¼- —
l.c.l., works.....lb. .06 - —
Stearate, precip., ctns., 2,000 lbs. to c.l., works..lb. .47 - —
less than ton lots, works.lb. .48 - —
Sulphate (see Gypsum).
Sulphide, 76%, bgs., c.l., works. ton.45.00 - —
30%, bgs., c.l., works...ton.50.00 - —
luminous, tins, works.....lb. 1.25 - —
Sulphocarbolate, bbls., dms..lb. .49 - .54
Tallate, 3%-4% Ca, 50-gal. dms. lb. .18½- .19½
Calcium-strontium sulphide, phosphorescent, dms., works..lb. 1.06 - 1.50
fine particle size, works. lb. 1.50 - 1.75
Calendula flowers, bls.....lb. 1.15 - 1.20
Calomel, USP, dms.....lb. 2.10 - 2.11
fine powd., dms.....lb. 2.25 - 2.26
Camphor, monobromated, dms.lb. 3.20 - —
Camphor, natural .....lb. No stocks.
synth., tech., bbls., contract, 2,000 lbs. or more, works.lb. .54 - —
10 bbls. (1,500 lbs.)....lb. .56½- —
5 to 9 bbls. .....lb. .57 - —
1 to 4 bbls.....lb. .58 - —
smaller lots.....lb. .60 - .67
USP, gran., powd., bbls., 2,000-lb. lots..lb. .81 - —
1,000-lb. lots.....lb. .82 - —
smaller lots.....lb. .83 - —
tablets, 2,000-lb. lots...lb. .94 - —
1,000-lb. lots .....lb. .95 - —
smaller lots .....lb. .96 - —
Canada balsam (see Fir balsam).
Cantharides, Russian, bgs.....lb. 7.50 Nom.
Chinese, cs.....lb. 5.45 - 5.75
powd., bxs.....lb. 5.70 - 6.00
Capsicum (see Pepper, red).
Capsicum oleoresin, USP VII, cns..lb. 4.50 - 4.65
Caramel coloring, bbls.....gal. .70 - 1.10
Caraway seed, California, Dutch type..lb. .25½- .29
Danish, bgs.....lb. .25½- .26
Dutch, bgs. .....lb. .25¾- .26½
futures, bgs. .....lb. .26 - .26½
Carbazole, 95%, dms., ton lots, works..lb. .81 - —
smaller lots, works.....lb. .91 - —
85%, dms., ton lots, works..lb. .75 - —
smaller lots, works.....lb. .85 - —
Carbinol, butyl, norm. dms., l.c.l., works..lb. .42 - —
secondary, dms., l.c.l., works, lb. .70 - —
Isobutyl, dms., c.l., works..lb. .51 - —
l.c.l., works .....lb. .52 - —
tanks, works .....lb. .50 - —
Methylisobutyl, dms., c.l., nearest delivery point buyer's works..lb. .12¾- —
l.c.l., same basis.....lb. .13½- —
tanks, same basis. .....lb. .11¾- —

A POWERFUL *Oxidant!*

BECCO
HYDROGEN PEROXIDE
90%

PROPERTIES

Assay:	90% H_2O_2 by weight
Active Oxygen:	42.4% by weight
Specific Gravity:	1.39 at 18°C.
Residue:	Less than 0.005%
Heat of Decomposition:	1100 B. T. U. per lb.
Form:	Clear, colorless liquid
Stability:	No loss of active oxygen on storage at ordinary temperatures. Stable at elevated temperatures.
Solubility:	Miscible with water in all proportions. Soluble in many organic media.

SUGGESTED USES

Organic Synthesis:	Oxidation, hydroxylation. Formation of peracids.
Polymerizations:	Promoter in bulk and suspension systems. Curing agent.
Bleaching:	Fats, oils, waxes and similar materials.
Energy Source:	Explosives, propellants. 1 liter produces over 400 liters of oxygen gas.

This residue free oxidant is especially useful in non-aqueous systems. It reacts faster and more efficiently than dilute hydrogen peroxide.

AVAILABILITY

Becco Hydrogen Peroxide 90% is now available in commercial quantities. It is shipped in aluminum containers—250 lbs. net. Laboratory samples on request.

A FEW OTHER BECCO PRODUCTS

Hydrogen Peroxide 27.5%	H_2O_2 by weight
Hydrogen Peroxide C. P. 30%	H_2O_2 by weight
Hydrogen Peroxide 35%	H_2O_2 by weight
Sodium Carbonate Peroxide	$2\,Na_2CO_3.3\,H_2O_2$
Zinc Peroxide 55%	ZnO_2
Acetyl Peroxide in Dimethyl Phthalate	$(CH_3CO)_2O_2$

Detailed description and laboratory samples of any Becco Active Oxygen Chemical will be sent on request.

BUFFALO ELECTRO-CHEMICAL COMPANY, Inc.
Becco Sales Corporation, Sales Agents
STATION "B", BUFFALO 7, NEW YORK
NEW YORK BOSTON PHILADELPHIA CHICAGO CHARLOTTE

Carbon bisulphide, 50-gal. dms., c.l., frt. alld. E. of Miss. R., N. of Ohio R..lb. .05 - —
l.c.l., same basis.....lb. .05¾- —
5-gal. dms., c.l., same basis, lb. .07 - .07¼
l.c.l., same basis.....lb. .08 - .08¼
Dioxide, cyls. .....lb. .06 - .06
Tetrachloride, c.p., dms., c.l.. lb. .08 - —
l.c.l. .....lb. .08¼- —
tech., Zone 1, 52½-gal. dms., c.l., frt. alld..lb. .06 - —
l.c.l., frt. alld.....lb. .06¼- —
Zone 2, 52½-gal. dms., c.l., frt. alld..lb. .06½- —
l.c.l., frt. alld.....lb. .07 - —
Zone 3, 52½-gal. dms., c.l., frt. alld..lb. .07 - —
l.c.l., frt. alld.....lb. .07½- —
Zone 4, 52½-gal. dms., c.l. lb. .06½- —
frt. alld.....lb. .06½- —
l.c.l., frt. alld.....lb. .07 - —
USP, cbys.....lb. .17 - .19

Carbon tetrachloride prices are frt. alld. with the exception of Zone 4, where prices are f.o.b. cars L. A., Cal.; S. F., Cal.; Portland, Ore., and Seattle, Wash. Sales zones are:—1, Conn., Del., Ill., Ind., Ia., Me., Mass., Md., Mich., Minn., Mo., N. H., N. J., N. Y., N. C., O., Pa., R. I., Tenn., Va., W. Va., Wis., and river cities of Burlington, Ia., and Kansas City, Kans.; 2, Ala., Ark., Fla., Ga., Kans., La., Miss., Neb., N. D., Okla., S. C., S. D.; 3, Colo., N. Mex., Tex., and Montana points E. of Billings; 4, Ariz., Cal., Idaho, Nev., Ore., Utah, Wash. and Montana points W. of Billings.

Cardamom, bleached, bold, cs., lb. 1.75 - 1.80
medium, cs.....lb. 1.55 - 1.60
decorticated, Guatemala, cs..lb. 1.40 - 1.45
India, cs.....lb. 1.45 - 1.50
green, Alleppey, bgs.....lb. 1.05 - 1.10
Carotene, cryst., 1,350,000 A units per gm., tins, works, 1,000,000 units. .50 - —
research grade (alpha, 10%; beta, 90%), amps. 100 grams, dlvd..gram. 2.85 - —
50 grams, dlvd.....gram. 2.90 - —
in vegetable oil, 250,000 USP units per gm., bots., works. lb.37.50 - —
50,000 USP units per gm., bots., works..lb. 8.43 - —
dms., works.....lb. 7.68 - —
3,000 A units per gm., tins, works, 1,000,000 units. .55 - —
dms., works, 1,000,000 units. .60 - —
3,300 USP units per gm., dms., works..lb. .66 - .71
Carvol, bots. .....lb.14.75 -22.50
Cascara sagrada bark, bulk..lb. .40 - .43
Case-hardening mixture, 30% gran., dms., l.c.l..lb. .09¾- —
slabs, dms., l.c.l.....lb. .08¾- —
Cassein, dom., acid-precip., bgs., 10,000 lbs. or more, ship't point..lb. No prices
2,000 lbs. or more, but under 10,000 lbs., same basis..lb. No prices
less than 2,000 lbs., same basis..lb. No prices
rennet-precip., 10,000 lbs. or more, same basis..lb. No prices
2,000 lbs. or more, but under 10,000 lbs., same basis..lb. No prices
less than 2,000 lbs.....lb. No prices
imp., acid-precip., ground, bgs., 100 bgs. or more..lb. No prices
rennet-precip., unground, 100 bgs. or more..lb. No prices
Cassia, Batavia No. 1, Thinquill bls..lb. .60 Nom.
No. 1, regular, bls.....lb. .37 - .38
shortstick, bls.....lb. .50 Nom.
broken, bls.....lb. .36 - .37
China buds, bgs.....lb. .33 - .33½
rolls, selected, cs.....lb. .13½- .14
extra select, broken, bls..lb. .11½- .12
Kwangsi, broken, bls.....lb. .15½- .16
Saigon, all medium.....lb. .29 - .30
4-10-4, bls.....lb. .30 - .31
broken, bls.....lb. .26 - .27
Yunnan, bls.....lb. .22 - .23
Cassia fistula, bskts.....lb. .26 - .28
Castor beans, bgs., Brazilian ports. long ton.285.00 Nom.
Oil (see Oil, castor).
Pomace, bgs., c.l., works..ton.37.50 - —
Castoreum, nat., cns.....lb. 8.00 -13.00
synthetic, cns.....lb.10.00 -21.00
Catechol, CP, cryst., works, fib. dms..lb. 2.00 - —
resublimed, works, dms....lb. 3.25 - —
Catnep, bls. .....lb. .65 - .70
Celery seed, French, bgs.....lb. .31 - .32
Indian, bgs. .....lb. .20½- .21
Celluloid scrap (see Pyroxylin scrap).
Cellulose acetate, flake, ctns., works, frt. alld. on 100 lbs. or more..lb. .36 - —
granules, ctns., same basis..lb. .42 - —
Acetate-butyrate, flake, high (36.5%) butyryl content, 50-lb. ctns., 5,000 lbs. and up, frt. alld.....lb. .51 - —
1,000-4,900 lbs. frt. alld..lb. .52 - —
50-lb. ctns., 100-900 lbs., frt. alld..lb. .53 - —
smaller pkgs., works.lb. .54 - —
medium (15.5 or 17.0%), 50-lb. ctns., 5,000 lbs. and up, frt. alld..lb. .49 - —
1,000-4,900 lbs., frt. alld..lb. .50 - —
100-900 lbs., frt. alld..lb. .51 - —
smaller pkgs., works..lb. .52 - —
Granules are 6c. per lb. higher, all quantities.
Triacetate, flake, ctns., works, frt. alld. on 100 lbs. or more..lb. .40 - —
Cerium hydrate, dms., works..lb. 1.00 - —
Oxalate, NF, bbls., kgs., works. lb. .70 - .72
Oxide, optical grade, kgs., 100-lb. lots, works..lb. 1.75 - —
bgs., smaller lots, works.lb. 2.25 - —
Chalk, precipitated, cosmetic, dentifrice, and drug, bgs., c.l., works..lb. .02¾- —
paint and other industries, bgs., c.l., works..ton.40.00 - —
papermakers, bgs., c.l., works. ton.32.50 -40.00
rubbermakers, bgs., b c.l., works..ton.30.00 - —
Chamomile, Hungarian, cs., futures..lb. .70 - .75
Roman, bls., futures.....lb. 1.40 - 1.45
Charcoal, hardwood, lump, bulk, c.l., works..ton.39.50 -43.50
bur. bgs., extra, returnable, c.l., works..ton.42.50 -45.50
briquets, bulk, c.l., works.ton.49.50 - —
bgs., c.l., works.....ton.54.50 -55.50
granular, bgs., incl., c.l., wks. ton.50.50 - —
screenings, bgs., works...ton.33.50 - —
Pinewood, lump, bgs., c.l., works, South..ton.35.00 - —
granular, powd., bgs., c.l., works, South..ton.40.00 - —
l.c.l., works.....ton.50.00 -60.00
Willow, powd., bbls.....lb. .06 - .07

Chestnut extract, 25% tannin, bbls., c.l., works.....lb. .0435- —
l.c.l., works.....lb. .0460- —
tanks, works.....lb. .0375- —
powdered, 65% tannin, bags extra, c.l., works.....lb. .1040- —
l.c.l., works.....lb. .1115- —
China clay, dem., dry-grd., air-float, 99.75%, 300 mesh, bgs., c.l., works..ton.12.00 - —
l.c.l., works....ton.16.00 - —
bulk, c.l., works.ton. 9.00 - —
200 mesh, bgs., c.l., works..ton.12.00 - —
l.c.l., works.....ton. 9.50-15.50
wet-grd., silk-bolt, 99½%, 325 mesh, bulk, c.l., works..ton. 9.50 - —
paper bgs., c.l., works.ton.12.50 - —
imported, white, lump, bulk, c.l., ex dock Balto., Boston, Norfolk, Phila..ton.20.00 -22.00
powd., cks., l.c.l., ex whse. ton.45.00 - —
Chloral, dms., works.....lb. .45 - .50
Hydrate, jars.....lb. .93 - .98
Chlorinated rubber, standard, ctns., 100 lbs. up, works.lb. .40 - —
smaller lots, works.....lb. .43 - —
1-lb. bots., ex whse.....lb. 1.25 - —
Chlorine, liquid, cyls., c.l., del. lb. .06¾- —
contracts, del. .....lb. .06¾- —
l.c.l., del. .....lb. .08¾- —
tanks, single units, works, frt. equald..100 lbs. 2.00 - —
multiple units, 3 cars or more, works, frt. equald. 100 lbs. 2.80 - —
2 cars, 2 works, frt. equald..100 lbs. 2.90 - —
1 car, 1 works, frt. equald. 100 lbs. 3.50 - —
Chloroform, tech., dms.....lb. .20 - .23
USP, dms.....lb. .30 - .33
Chloropicrin, com'l, 180-lb. cyls. lb. .30 - —
100-lb. cyls., same basis.lb. .32 - —
25-lb. cyls., ex whse.....lb. 1.00 - —
1-lb. bots., ex whse.....lb. 1.25 - —
Choline chloride, fib. dms., works. lb. 3.00 - 3.10
feed grade, fib. dms., works. lb. 2.00 - —
Dihydrogen citrate, fib. dms., works..lb. 3.00 - 3.10
Chrome acetate, powd., 72% Cr., bbls., works..lb. No stocks
solut., 7½%, bbls., cs.....lb. .09¼- —
8½%, bbls., cs.....lb. .09¾- —
Fluoride, bbls., works.....lb. .24 - .27
Cake, bulk, c.l., works.....ton.16.00 - —
Oxide (see Green, chrome oxide).
Trioxide (see Acid, chromic).
Yellow (see Yellow, chrome).
Chrysarobin, bots.....lb. 6.02 - 8.00
Cinchona bark, red, quill, USP, 10-in., can..lb. 1.26 Nom.
Cinchonidine, small, cryst., cns., 100 ozs..oz. 1.02½- —
Cinchonine, small, cryst., cns., 100 oz..oz. .75½- —
large, cryst., cns., 100 ozs..oz. .79½- —
sulphate, NF, cns., 100 ozs..oz. .55½- —
Cinchopen, NF, heavy, dms., works..lb. 4.20 - 4.30
standard, dms., works.....lb. 4.00 - 4.10
Cinnamic alcohol (see Alcohol, cinnamic).
Aldehyde, cbys., cns., dms..lb. .82 - 1.25
Cinnamon, Ceylon, No. 2, bls., futures..lb. .64 - .65
Citral, bots., cns.....lb. 7.25 - 9.65
Citronellal, bots., dms.....lb. No prices.
Citronellol, bots., dms.....lb. 5.70 -12.50
Clove, Madagascar, bls.....lb. .14 - .14½
futures, bls.....lb. .14½- .15
Zanzibar, bls.....lb. .16¾- .17¼
Clover tops, red, dom., bgs....lb. .70 - .75
imported, bgs. .....lb. No stocks.
Coaltar, coal-gas, crude, 50 gal., bbls., c.l., works..bbl. 8.25 - 8.50
l.c.l., works.....bbl. 9.50 - —
tanks, works.....gal. .08 - .08¾
refd., 50-gal. bbls., c.l., works. bbl. 8.75 - 9.00
l.c.l., works.....gal. 9.50 - —
tanks, works.....gal. .10 - .10½
water-gas, crude, 55-gal. dms., c.l., works..bbl. 8.50 - —
l.c.l., works .....bbl. 9.00 - —
refd., 55-gal. dms., c.l., works. dm. 9.00 - —
l.c.l., works .....dm. 9.50 - —
Cobalt acetate, bbls., kgs., dlvd. lb. .83¾- —
feed grade, 23¼% Co, kgs..lb. 1.25 - —
Carbonate, powd., bgs., works. lb. 1.56 - —
feed grade, 49¼% Co, kgs.lb. 1.85 - —
Chloride, kgs., works.....m. .87½- —
feed grade, 24.5% Co, kgs.lb. 1.25 - —
Hydrate, bbls.....lb. 2.04 - —
feed grade, 62% Co, kgs....lb. 2.25 - —
Linoleate, paste, 6%, dms...lb. .60 - —
solid, 3½%, dms.....lb. .67 - —
Naphthenate, 12% Co, solid, dms..lb. .85 - —
Nitrate, feed grade, 20.4% Co, kgs..lb. 1.25 - —
Oleate, bbls.....lb. .44 Nom.
Oxide, black, kgs.....lb. 1.64 - —
Phosphate, feed grade, 34% Co, kgs..lb. 1.75 - —
Resinate, precip., 7.5% Co, 100-lb. dms..lb. .83½- —
Soyate, 8%-8.5% Co, 50-gal. dms..lb. .42 - .44
Sulphate, dms.....lb. .65 - —
feed grade, 21% Co, kgs....lb. 1.00 - —
Cobalt salts, feed grade, quotations are f.o.b. Philadelphia, Cleveland or New York.
Cobalt-ammonium sulphate, 14% Co, kgs..lb. .75 - —
Cocaine hydrochloride, 100-oz. lots, cns..oz. 9.75 - —

Spot Deliveries

CAFFEINE, Citrated U.S.P.
PHOSPHORIC ACID U.S.P., Syrupy
CAUSTIC POTASH, Solid
POTASSIUM PERMANGANATE
MAGNESIUM METAL POWDER, High Purity
HEAVY CALCINED MAGNESIA, White
PHOSPHORUS, Red Amorphous
CAUSTIC SODA
SODIUM BICHROMATE
TARTARIC ACID U.S.P.
BLEACHING POWDER, High Test
SILVER CYANIDE
TETRACHLOROETHANE
ATABRINE TABLETS

OTHER SPECIAL PRODUCTS
Distributors for THE RUFERT CHEMICAL COMPANY
NICKEL FORMATE • Also NICKEL CATALYST • NICKEL CARBONATE
NICKEL OXIDE, etc.

GOLWYNNE
CHEMICALS CORPORATION
420 LEXINGTON AVENUE • NEW YORK 17, N. Y. • PHONE LE 2-9740

Cochineal, gray, bgs.....lb. .65 - .66
silver, Teneriffe, bgs.....lb. .66 - .69
Cocoa butter, bulk, ship. pt...lb. .38 - —
Cocillana bark, bgs.....lb. .53 - .54
Codeine, cns., 100 ozs.....oz. 11.70 - —
Hydrochloride, cns., 100 ozs. oz. 10.50 - —
Phosphate, cns., 100 ozs....oz. 9.00 - —
Sulphate, cns., 100 ozs.....oz. 9.50 - —
Codliver oil(see Oil, codliver).
Cohosh root, black, bls.....lb. .24 - .25
blue, bls. .....lb. .24 - .25
Colchinine, bots., cns.....oz. No stocks.
Colchicum seed .....lb. No stocks.
Collodion, USP, dms.....lb. .24 - .29
Flexible, USP, dms.....lb. .25½- .30½
Colocynth pulp, bls.....lb. .52 - .53
Colombo root, bls.....lb. .17 - .18
Coltsfoot leaves, bgs.....lb. .50 - .55
Condurango bark, bgs., futures, lb. .28 - .29
Copaiba balsam, Para, cns....lb. No stocks.
S. A., USP, cns.....lb. 1.10 - 1.15
Copper acetate, cupric, bbls., works..lb. .28 - —
smaller containers, wks..lb. .29 - .30
Carbonate, 52-54%, bbls.....lb. .23 - .24
Chloride, anhyd., bbls.....lb. .25½- —
crystals, bbls.....lb. .17 - —
Cyanide, tech., bbls.....lb. .40½- —
Hydrate, dms.....lb. .25 - .25½
Metal, electrolytic .....lb. .19½- —
Naphthenate, 8% Cu, liquid, dms., dlvd..lb. .20½- —
solid, dms., dlvd.....lb. .34 - —
Nitrate, tech., cryst., bbls., wks..lb. .19½- .20½
Oleate, precip., bbls.....lb. .22½- .23½
Oxide, black, bbls., works...lb. .25 - —
red, com'l, bbls., works....lb. .26 - —
Oxychloride-sulphate,9 bgs...lb. .17 - .30
Resinate, precip., 8.5% Cu, 125-lb. dms..lb. .20½- —
Stearate, bgs., works.....lb. .35½- —
Sulphate, 99%, cryst., bgs., c.l., works..100 lbs. 7.10 - —
l.c.l., 100 to 36,000 lbs.. 100 lbs. 7.35 - 8.10

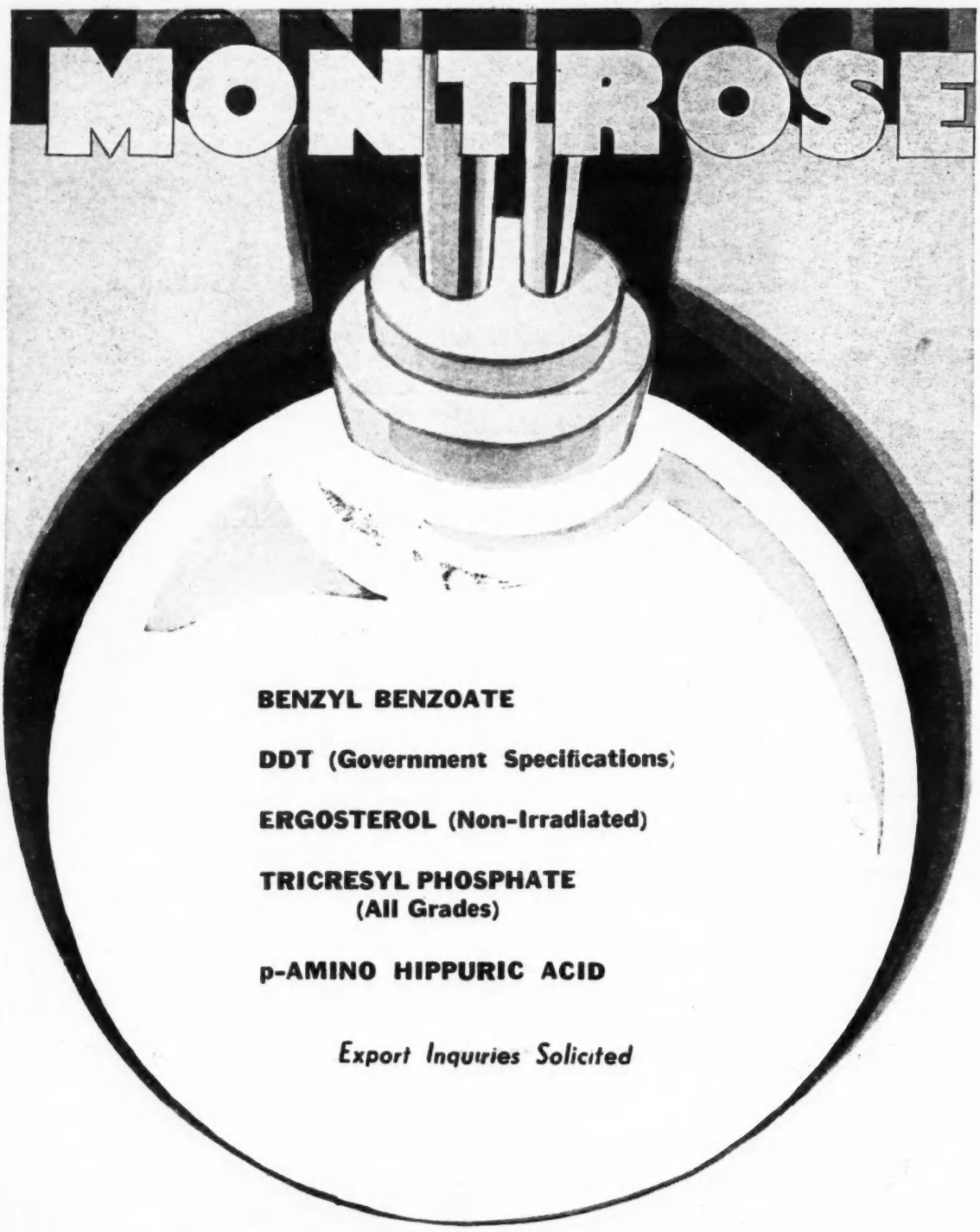
Copper sulphate, monohydrated, dms., c.l., dlvd..100 lbs. 12.10 - —
l.c.l., dlvd. .....100 lbs. 12.95 - —
tribasic, bgs., works, c.l...lb. .20½- .21½
l.c.l., same basis.....lb. .21½- .22
Copperas, cryst., gran., bgs., c.l., works..ton. 17.00 - —
l.c.l., works .....100 lbs. 1.55 - 2.00
bbls., c.l., works.....ton. 20.00 - —
bulk, c.l., works.....ton. 14.00 - —
Copra, c.i.f. Pacific ports....ton. 214.00 -217.00
c.i.f. Atlantic or Gulf ports. ton. 220.00 -223.00
Coriander seed, Argentine, bgs., lb. .05¾- .06¼
Indian, bgs. .....lb. No stocks
Italian, bgs.....lb. .06¼- .06¾
Morocco, bgs. .....lb. No stocks
Peruvian, bgs.....lb. .07 - .07½
Corn silk, bls.....lb. .55 - .60
Corn sugar, tanners, chipped, bgs., c.l., 60,000 lbs. min. 100 lbs. 4.30 - —
bbls., c.l., same basis..... 100 lbs. 4.63 - —
Syrup, 42°, bbls., c.l....100 lbs. 4.95 - —
l.c.l. .....100 lbs. 5.10 - —
Corrosive sublimate, USP, cryst., dms., 50 lbs. or more..lb. 1.93 - —
gran., powd., dms., 50 lbs. or more..lb. 1.78 - —
Cottonroot bark, bls.....lb. .40 - .45
Cottonseed hull ash, 32-36% pot-ash, bgs., dlvd..unit-ton. No prices
Meal, 41% protein, sacked, mills, southeast, c.l..ton. 63.00 - —
Coumarin, cns., 5 lbs. or more. lb. 2.75 - 3.25
smaller lots.....lb. 2.90 - 3.30
Cramp bark, NF, bls.....lb. .75 - .80
Cream of tartar, dom., USP, gran. or powd., bbls., 5,000 lbs. one ship't..lb. .45½- —
smaller lots, bbls., kgs., lb. .46 - .46½

Creosote carbonate, bots., cbys., lb. 2.30 - 2.40
Coaltar (see Cresol).
Oil, coaltar, crude, tanks works..gal. .17 - .17⅛
Creosote oil, refined, dms., c.l., works..gal. .26½- .34½
l.c.l., same basis....gal. .29 - .39
tanks, same basis....gal. .20 - .21
solution, tanks, works....gal. .158 - .16
Wood beech, bots., cbys....lb. 1.05 - 1.10
Hardwood, N.F., bots., cbys.lb. .80 - .97
Pine, dms.....gal. .31 - .32
Cresol, special resin grades, dms., c.l., works, frt. equald. lb. .12¼- .13¾
l.c.l., same basis.....lb. .13 - .13¾
tanks, same basis.....lb. .11¾- .12½
USP, dms., c.l., same basis..lb. .13¼- .13¾
l.c.l., same basis.....lb. .13¾- .14¼
tanks, same basis.....lb. .12¼- .13
Crotonaldehyde, 91-93%, 55 and 110 gal. dms., l.c.l., works. lb. .17 - —
5 and 10-gal. dms., l.c.l. works..lb. .20½- —
Cryolite, dealers, nat., bgs., bbls., c.l., works..100 lbs. .12¾- —
bbls., l.c.l., works....100 lbs. .14 - —
synth., bgs., bbls., c.l., frt. alld. E. of Miss. R..lb. — - —
l.c.l., works.....lb. — - —
Cube root, 5% rotenone, bbls., works..lb. .45 - —
4% rotenone, bbls., works..lb. .36 - —
Cubeb berries, XX, bgs.....lb. .85 - .90
powd., cs. .....lb. 1.10 - 1.20
Culvers root, bls.....lb. .70 - .75
Cumin seed, Cyprus, bgs.....lb. No stocks
Indian, bgs., futures.....lb. .40 - .41
Morocco, bgs.....lb. No stocks
Persian, bgs. .....lb. .30½- .31
Syrian, bgs. .....lb. .30½- .31
Cutch, bgs. .....lb. No stocks

Cyanamide, fertilizer mixing grades, guaranteed 20.6% N., gran., bulk, Niagara Falls, Ont., contracts, bulk, unit-ton. 1.85 - —
21% N., pulv., bgs., same basis..unit-ton. 1.75 - —
Cyclohexane, tech., dms., c.l., works..lb. .09 - —
l.c.l., works .....lb. .09½- —
tanks, works .....lb. .08 - —
Cyclohexanol, 99%-100%, dms., works..lb. .21 - .23
Cyclohexanone, 97½% min., dms., c.l., works..lb. .30 - .32
tech., dms., c.l., works....lb. .30 - —
l.c.l., works.....lb. .30½- —
tanks, works.....lb. .29 - —
Cyclopropane, USP, cyls. dlvd., gal. .27 - —

D

Damiana leaves, bls.....lb. .35 - .40
Dandelion root, bls.....lb. .75 - .90
DDT, fiber, dms., c.l., works.lb. .42½- —
ton lots, works .....lb. .45 - —
tins, smaller lots, works...lb. .48 - .50
divd...lb. .55 - —
Decanol, normal, tech., dms., Deertongue, bls. .....lb. .55 - .60
Defluorinated phosphate, paper bgs., works..ton. 85.75 - —
Degras, common, bbls.....lb. .10 - .13
neutral, less 2% ffa, bbls..lb. .22 - .24
over 2% ffa, bbls.....lb. .21 - .23
Derris root (see Cube root).
Dextrin, British gum, bgs., c.l. 100 lbs. 5.75 - —
l.c.l. .....100 lbs. 5.90 - —
Chicago, bgs., c.l....100 lbs. 5.30 - —
Corn, canary, bgs., c.l..100 lbs. 5.49 - —
l.c.l. .....100 lbs. 5.64 - —
Chicago, bgs., c.l..100 lbs. 5.04 - —
dark, bgs., c.l.....100 lbs. 5.59 - —
l.c.l. .....100 lbs. 5.74 - —
Chicago, bgs., c.l..100 lbs. 5.14 - —
white, bgs., c.l.....100 lbs. 5.34 - —
l.c.l. .....100 lbs. 5.49 - —
Chicago, bgs., c.l..100 lbs. 4.89 - —
Dextrin prices above are for paper bags; cotton bags quoted 20c. higher.
Potato, dom., bgs., c.l.....lb. .13½- —
l.c.l. .....lb. .14 - —
Diacetone (see Alcohol, diacetone).
Diacetyl, flavor grades, bots...lb. 5.20 - 5.65
laboratory grade, bots..... 100 grams. 4.50 - —
tech., bots., works.....lb. 3.00 - —
Diamyl ether (see Amyl ether).
Phthalate, dms., tanks.....lb. No prices.
Diamylamine, dms., c.l., works, lb. 1.47 - —
l.c.l., works .....lb. 1.50 - —
Dianisidine, dms. .....lb. 1.38 - —
Diatomaceous earth, dom., ✓, bgs., c.l., Atlantic Coast..lb. .07 - —
l.c.l., ex whse.....lb. .10 - .10
nat., bgs., c.l., Pacific coast, ton. 22.00 -35.00
l.c.l., ex whse.....ton. 45.00 - —
purified, bgs., c.l., Atlantic coast..ton. 55.00 -59.00
l.c.l., ex whse.....ton. 85.00 -90.00
imported, Algerian, bgs., c.l., Atlantic coast..ton. No prices.
Mexican, white, bgs., c.l., Atlantic coast..lb. .06 - —
l.c.l. .....lb. .06 - —
Dibutyl phthalate, 5-gal. cns., frt. alld. E. of Rockies..lb. .33½- —
1-gal. cns., same basis....lb. .35½- —
dms., c.l., same basis.....lb. .29½- .30½
l.c.l., same basis.....lb. .30 - .31
tanks, same basis.....lb. .28 - .29
Sebacate, dms., c.l., works..lb. No prices
l.c.l., works.....lb. No prices
tanks, works.....lb. No prices
Tartrate, dms., wks., frt. alld. lb. .92 - 1.00
Dibutylamine, dms., c.l., works, lb. .76 - —
l.c.l., works .....lb. .79 - —
Dichlorodiphenyltrichloroethane (see DDT).
Dichloroethyl ether, purified, dms., c.l., works, frt. equald with So. Charleston..lb. .13¼- —
l.c.l., same basis.....lb. .14 - —
tanks, same basis.....lb. .12¼- —
Diethanolamine, dms., c.l., frt. alld. in E..lb. .23½- —
l.c.l., same basis.....lb. .24½- —
tanks, same basis.....lb. .22½- —
Diethyl carbonate, dms., l.c.l..lb. .40 - —
Oxalate, dms., c.l.....lb. .33½- —
l.c.l. .....lb. .34½- —
tanks .....lb. .32 - —
Phthalate, dms., c.l., divd...lb. .29½- —
dms., l.c.l., divd.....lb. .30 - —
tanks, divd.....lb. .28 - —
Sulphate, dms., c.l., works..lb. .14 - —
l.c.l., works.....lb. .15 - —
tanks, works .....lb. .13 - —
Diethylamine, dms., c.l., works, lb. .54 - —
l.c.l., works .....lb. .56 - —
tanks, works .....lb. .50 - —
Diethylaminoethanol, dms., l.c.l., works, frt. alld. E. of Miss. R..lb. .75 - —
Diethylaniline, dms. .....lb. .46 - —
Diethyleneglycol, dms., c.l., frt. alld. in E..lb. .14 - —
l.c.l., same basis.....lb. .15 - —
tanks, same basis.....lb. .13 - —
Monobutylether, dms., c.l., wks. lb. .22 - —
l.c.l., works .....lb. .23 - —
tanks, works .....lb. .21 - —
Monoethylether, dms., c.l., wks. lb. .15½- —
l.c.l., works .....lb. .16½- —
tanks, works.....lb. .14½- —
Diethylstilbestrol, bots. .....kilo. 270.00 -280.00
Digitalin, cryst., bots.....gram. 29.00 -30.00
powd., bots.....gram. 1.25 - 1.75
Digitalis leaves, dms.....lb. 1.05 - 1.15
Diglycol laurate, dms.....lb. .81 - .82
Oleate, light, bbls., c.l.....lb. .17 - —
Stearate, bbls., c.l.....lb. .28 - —
Dihydroxydichlorodiphenylmethane, dms., works of N.Y. met..lb. .95 - 1.00
smaller containers, same basis. lb. 1.05 - 1.40
Di-isobutyl ketone, dms., works.. lb. .19 - —
Dillseed, decorticated, bgs....lb. .14 - .14½
dewhiskered, bgs. .....lb. .10½- .11
Dimethyl phthalate, dms., c.l., divd..lb. .20 - —
l.c.l., divd.....lb. .20½- —
tanks, divd.....lb. .19 - —
Dimethylamine, anhyd., cyl., frt. alld. E. of Miss., 100% basis. lb. .40 - —
solution, dms., works, frt. alld. E. of Miss., 100% basis..lb. .37 - .47½
tanks, same basis.....lb. .36 - —
Dimethylaniline, dms., c.....lb. .20 - —
l.c.l .....lb. .22 - —
Dinitrobenzene, bbls.....lb. .16 - —
Dinitrochlorobenzene, dms.....lb. .14 - —
Dinitronaphthalene, kgs.....lb. .35 - .38
Dinitrophenol, bbls.....lb. .22 - —
Dinitrotoluene, rfd., dms.....lb. .18 - —
oily, dms.....lb. .05 - —
Diorthotolylguanidin, dms., ten lots, divd..lb. .44 - —
smaller lots, divd.....lb. .46 - .47



MONTROSE Chemical Company
LISTER AVENUE, NEWARK, NEW JERSEY
SELLING AGENTS R. W. GREEFF & CO., INC. 10 ROCKEFELLER PLAZA, NEW YORK, N.Y.
TRIBUNE TOWER, CHICAGO, ILLINOIS

...exan, dms., c.l., frt. alld.	lb.	.20	- —
...l.c.l., same basis	lb.	.21	- —
...anks, same basis	lb.	.19	- —
...p oil (see Tar acid oil).			
...pentene, destructive dist., dms., extra, wks., South, c.l.	gal.	.66	- —
...tanks, wks., South	gal.	.60	- —
...steam dst., dms	gal.	.80	- —
...tanks, dlvd. E	gal.	.77	- —
...phenyl, bbls., c.l., works	lb.	.15	- —
...l.c.l., works	lb.	.16	- .20
...)xide, perfume grade, cns	lb.	.59	- .61
...dms.	lb.	.45	- .56
...phenylamine, bbls	lb.	.25	- —
...phenylguanidin, dms., tens.	lb.	.85	- —
...smaller lots	lb.	.86	- .87
...vi-divi, 38% tannin, c.l., U.S. ports, ex dock	ton.	68.00	-69.00
...grass root, dom., cut, bls.	lb.	.30	- .35
...imp., NF, cut, bls	lb.	.40	- .45
...gwood, Jamaica, bark, bls.	lb.	.12	- .14
...ver's powder, USP, cns	lb.	No stocks	
...agon's blood, drops, cs	lb.	.55	- .60
...reeds, cs	lb.	No stocks	

...es, coaltar (certified colors for foods, drugs and cosmetics), 5-lb. lots)—

...Blue, FD&C, No. 1, cns.	lb.	13.00	- —
...Green, FD&C, No. 1, cns.	lb.	13.00	- —
No. 2, cns.	lb.	17.00	- —
No. 3, cns.	lb.	27.00	- —
...Orange, FD&C, No. 1, cns.	lb.	2.80	- —
No. 2, cns.	lb.	3.55	- —
...ted, FD&C, No. 1, cns.	lb.	5.75	- —
No. 2, cns.	lb.	3.05	- —
No. 3, cns.	lb.	17.00	- —
No. 4, cns.	lb.	5.50	- —
No. 32, cns.	lb.	4.05	- —
...Yellow, FD&C, No. 1, cns.	lb.	8.00	- —
No. 3, cns.	lb.	2.55	- —
No. 4, cns.	lb.	2.55	- —
No. 5, cns.	lb.	3.05	- —
No. 6, cns.	lb.	3.06	- —

...es, coaltar (certified colors for drugs and cosmetics), 1-lb. lots—

...Black, D&C, No. 1, cns.	lb.	8.35	- —
...Blue, D&C, No. 4, cns.	lb.	12.35	- —
...Brown, D&C, No. 1, cns.	lb.	12.35	- —
...Green, D&C, No. 5, cns.	lb.	12.35	- —
No. 6, cns.	lb.	12.85	- —
...Orange, D&C, No. 5, cns.	lb.	8.85	- —
No. 4, cns.	lb.	15.35	- —
No. 10, cns.	lb.	15.85	- —
...ted, D&C, No. 8, cns.	lb.	2.85	- —
No. 17, cns.	lb.	8.35	- —
No. 18, cns.	lb.	15.35	- —
...Yellow, D&C, No. 7, cns.	lb.	8.35	- —
No. 8, cns.	lb.	8.35	- —
No. 11, cns.	lb.	10.35	- —
No. 19, cns.	lb.	15.35	- —
No. 22, cns.	lb.	8.35	- —
No. 33, cns.	lb.	13.35	- —
No. 37, cns.	lb.	12.35	- —

...es, coaltar (certified colors for external use drugs and cosmetics), 1-lb. lots—

...Blue, Ext. D&C, No. 1, cns.	lb.	12.35	- —
...Green, Ext., D&C, No. 1, cns.	lb.	12.35	- —
...ted, Ext. D&C, No. 1, cns.	lb.	10.35	- —
No. 3, cns.	lb.	21.85	- —
No. 8, cns.	lb.	7.85	- —
No. 10, cns.	lb.	12.35	- —
No. 13, cns.	lb.	12.35	- —
...Yellow, Ext. D&C, No. 1, cns.,	lb.	8.35	- —

...es, coaltar, for general uses (number are ...es of Colour Index scale)—

36 Chrome yellow, 2G	lb.	.65	- .70
40 Chrome yellow R	lb.	.50	- 1.00
53 Victoria violet	lb.	.80	- 1.00
165 Lake red C	lb.	.70	- .80
170 Fast red A	lb.	.56	- .60
180 Fast red VR	lb.	1.50	- 1.60
189 Lake red R, paste	lb.	.85	- .90
189 Lake red R, powd.	lb.	3.00	- 3.10
202 Chrome blue black U	lb.	.35	- .42
204 Chrome black A	lb.	.42	- .45
208 Fast red bllue R	lb.	.75	- 2.00
216 Chrome red B	lb.	1.75	- 2.00
262 Cloth red 2B	lb.	.60	- .80
289 Fast cyanin 5R	lb.	.90	- 1.00
299 Chrome black F	lb.	.85	- .88
304 Paper yellow	lb.	.88	- .90
307 Fast cyanin black B	lb.	.80	- .85
326 Direct fast scarlet	lb.	2.00	- 2.25
365 Chyrophenin G	lb.	.58	- .70
382 Direct scarlet B	lb.	1.15	- 1.20
387 Direct violet B	lb.	1.00	- 1.30
394 Direct violet N	lb.	.80	- .95
401 Developed black BHN,	lb.	.45	- .60
406 Direct blue 2B	lb.	.66	- .70
415 Direct orange B	lb.	.60	- .70
419 Direct fast red F	lb.	.70	- .73
420 Direct brown M	lb.	.55	- .57
448 Benzo purpurin 4B	lb.	.65	- .68
405 Benzo purpurin 10B	lb.	.40	- .50
502 Direct azorin G	lb.	.75	- .80
512 Direct blue RD	lb.	.80	- 1.00
518 Direct pure blue 6B	lb.	1.20	- 1.30
520 Direct pure blue	lb.	.50	- 1.00
529 Direct fast black FF	lb.	.55	- 1.00
581 Direct black EW	lb.	.50	- .54
582 Direct black RX	lb.	.35	- .45
592 Direct green B	lb.	.50	- .55
594 Direct green G	lb.	.50	- .55
596 Direct brown 3GO	lb.	.85	- 1.00
620 Direct yellow R	lb.	1.25	- 1.50
688 Acid violet	lb.	1.00	- 3.00
812 Primulin	lb.	.70	- .73
814 Direct fast yellow	lb.	2.80	- 2.25
945 Nigrosin (water soluble).	lb.	.35	- .50
1177 Indigo, 20%, paste	lb.	.15	- .18
Benzo fast black L	lb.	.90	- 1.00
Sulphur black	lb.	.20	- .25
Sulphur blue	lb.	.45	- 1.00
Sulphur brown	lb.	.25	- .50
Sulphur maroon	lb.	.40	- —
Sulphur tan	lb.	.30	- .50
Sulphur olive	lb.	.25	- .54
Sulphur yellow	lb.	.30	- .50
Zambesi black	lb.	.75	- .80

...s, coaltar, for stains, oil-soluble (prices E. in barrels of 250 lbs. each; 25 lb. lots and up, 3c. per lb. higher, sellers' works or warehouse).

...lack—			
865 Nigrosin derivatives	lb.	.36	- .44
...lue—			
7075 Alizarin astral base	lb.	15.00	- —
1073 Alizarin cyanin, green base	lb.	6.00	- —
...rown—			
Brown, oil soluble	lb.	1.15	- —
...reen—			
1076 Alizarin cyanin green base	lb.	5.00	- —
...range—			
24 Sudan I	lb.	.75	- —
Red shade	lb.	.75	- —
...ed—			
75 Sudan II	lb.	1.05	- —
258 Sudan IV	lb.	.85	- —
690 Oil violet	lb.	.60	- —
749 Rhodamine B (oil pink).	lb.	2.50	- —
1060 Anthraquinone, violet base	lb.	6.00	- —
...llow—			
16 Amidoazobenzene yellow.	lb.	.90	- —
17 Amidoazotoluene yellow.	lb.	.75	- —
61 Yellow OB	lb.	1.40	- 2.00

Dyes, coaltar, for stains, spirit-soluble (prices in barrels of 250 lbs. each; 25-lb. lots and up, 3c. per lb. higher, sellers' works or warehouse).

Black—			
246 Naphthol blue black S	lb.	.50	- —
729 Victoria blue B	lb.	1.55	- —
861 Indulin	lb.	.87	- —
878 Methylene gray	lb.	1.50	- —
909 New blue P	lb.	1.20	- —
922 Methylene blue	lb.	1.00	- —
1054 Alizarin saphirol B	lb.	1.90	- —
1130 Indigotin IA	lb.	.85	- —
Blue—			
714 Patent blue A	lb.	1.05	- 1.10
Brown—			
231 Bismarck brown G	lb.	.47	- .62
234 Resorcin brown Y	lb.	.65	- —
235 Resorcin dark brown R.	lb.	65	- —
632 Bismarck brown R	lb.	.47	- .62
793 Phosphin	lb.	4.65	- —
Green—			
5 Naphthol green B	lb.	1.00	- —
657 Malachite green	lb.	1.35	- —
662 Brilliant green	lb.	2.00	- —
666 Guinea green B	lb.	1.15	- —
737 Wool green S	lb.	.58	- —
924 Methylene green B	lb.	1.55	- —
1078 Alizarin cryanin green	lb.	2.00	- —
Orange—			
10 Chrysodin G	lb.	.44	- —
21 Chrysodin R	lb.	.41	- —
27 Orange G	lb.	.50	- —
31 Amidonaphthol red G	lb.	.42	- —
37 Amidonaphthol red 6B.	lb.	.68	- —
151 Orange Y	lb.	.31	- .32
161 Orange R	lb.	.34	- —

Dyes, coaltar, for stains, spirit-soluble (prices in barrels of 250 lbs. each; 25-lb. lots and up, 3c. per lb. higher, sellers' works or warehouse).

Red—			
79 Ponceau R	lb.	.48	- —
88 Fast red B	lb.	1.65	- —
176 Fast red A	lb.	.54	- —
179 Azorubin	lb.	.60	- —
183 Crocein scarlet 3BX	lb.	.72	- .75
185 Cochineal red A	lb.	.60	- —
252 Brilliant crocein M	lb.	.68	- —
677 Fuchsin	lb.	2.10	- —
749 Rhodamine B	lb.	3.50	- —
752 Rhodamine 6B	lb.	4.50	- —
768 Eosin G	lb.	1.50	- —
841 Safranin	lb.	1.45	- —
Violet—			
680 Methyl violet B	lb.	.70	- .75
681 Crystal violet B	lb.	1.75	- —
696 Acid violet 4BN	lb.	.88	- —
Yellow—			
10 Naphthol yellow S	lb.	.83	- —
128 Metanil yellow	lb.	.56	- .58
636 Fast light yellow	lb.	1.25	- —
639 Xylene light yellow	lb.	1 15	- —
640 Tartarsin	lb.	.80	- —
655 Auramine	lb.	1.27	- —

Dyes, coaltar, for stains, water-soluble (prices E. in barrels of 250 lbs. each; 25-lb. lots and up, 3c. per lb. higher, sellers' works or warehouse).

Black—			
364 Nigrosin	lb.	.36	- .44
Blue—			
860 Indulin	lb.	.60	- .70
Brown—			
331 Bismarck brown	lb.	1.50	- —
Green—			
637 Malachite, green base.	lb.	2.00	- —
Orange—			
20 Chrysoidin G	lb.	.95	- —

Dyes, coaltar, for stains, water-soluble (prices E. in barrels of 250 lbs. each; 25-lb. lots and up, 3c. per lb. higher, sellers' works or warehouse).

Red—			
677 Fuchsin, magenta, base,	lb.	7.25	- —
749 Rhodamine R	lb.	4.75	- —
Yellow—			
67 Amidoazotoluene yellow.	lb.	.75	- —
653 Auramine	lb.	2.00	- —
800 Chinolin yellow SS	lb.	2.00	- —
Violet—			
680 Methyl violet base	lb.	.85	- —

Dyes, natural (see name of article).

E

Echinacea root, bls	lb.	.70	- .75
Egg, albumen (see Albumen).			
Yolk, dried, dom., bbls	lb.	1.16	- 1.25
imported	lb.	No stocks	
Elder flowers, bright, bls	lb.	.75	- .80
Elecampane root, bls	lb.	.45	- .50
Elm bark, grinding, bls	lb.	.35	- .36
powd., bbls., bxs	lb.	.55	- .56
select, bndls	lb.	.55	- .56
Emetine hydrochloride, bots	oz.	53.50	-54.00
Ephedra, bls	lb.	.28	- .30
Ephedrine, synthetic, USP anhydrous, bots, 100-oz. lots	oz.	.84	- —
hydrous, bots., 100-oz. lots,	oz.	.78	- —
Hydrochloride, tin	100 ozs. oz.	.60	- —
Sulphate, cryst., tins, 100 ozs.	oz.	.57	- —
powd., tins 100-oz. lots	oz.	.58	- —
Epinephrine, synth., USP, bots.	gram.	.70	- .95

BEMIS MINUTE MOVIES

for Shippers Who Want to Save Time and Money

"THE DOOM OF THE AWFUL AROMA"

Scenario: An Important Chemical is hard-working, invaluable to society . . . but people don't like to associate with it because it has halitosis (in other words, it's a social outcast).

How can our friend become a pleasant traveling companion? Simple! In odorproof containers, of course. (This fellow's breath is too strong for an ordinary container.) But won't *special* containers cost too much? What to do? What to do? . . .

Happy Ending: Our hero got wise, like a lot of other socialites, and began traveling in economical Bemis Waterproof Laminated Textile Bags. He rides safely, saves money and enjoys public approval. Everybody is happy again.

PRE-TESTS STOP PROTESTS! Bemis Waterproof Laminated Textile Bags head off complaints because they are tested *before* they are put to work. Their strength and tear-resistant, puncture-resistant qualities are pre-proved for you. And their economy is attested by thousands of users.

This Bemis Waterproof Bag is light in weight, yet is the strongest shipping bag made. It protects both ways — what's inside the bag and what's outside, too. It assures low-cost protection against escape or absorption of odors, change in moisture content, contamination, sifting, breakage, and many other common shipping complaints. It eliminates labeling costs and saves packaging and shipping costs.

A Bemis Waterproof Bag can also be made lintproof, acid-, oil-, or grease-resistant. Empty or filled, it saves storage space.

If the *exact* Waterproof Bag you need doesn't exist, the Bemis Shipping Research Laboratory will design it for you.

Write today for a copy of "Seven Facts About Low-Cost Protective Packaging"

BEMIS BRO. BAG CO.

WATERPROOF DEPARTMENT

408 PINE ST. ST. LOUIS 2, MO.

Plants and Offices in 33 Principal Cities

Epsom salt, tech., cryst., bgs., c.l..100 lbs. 2.05 - —
l.c.l. .....100 lbs. 2.40 - 2.65
USP, cryst., bgs., c.l..100 lbs. 2.25 - —
l.c.l., 5,000 lbs., 1 withdrawal..100 lbs. 2.50 - —
smaller lots.....100 lbs. 2.75 - —
bbls., c.l.....100 lbs. 2.35 - —
l.c.l., 5,000 lbs., 1 withdrawal..100 lbs. 2.60 - —
smaller lots.....100 lbs. 2.85 - —
kgs., c.l.....100 lbs. 2.60 - —
l.c.l., 5,000 lbs., 1 withdrawal..100 lbs. 2.85 - —
smaller lots.....100 lbs. 3.10 - —

Epsom salt prices freight equalized with Balto., Carteret, N. J.; Chicago, Cincinnati, Cleveland, Houston, New Orleans, New York.

Ergot, USP, cns.....lb. 1.55 - 1.60
Eserine, bots.....oz. No prices
Sulphate, bots.....oz.65.00 - —
Ether, acetic (see Ethyl acetate).
Amyl (see Amyl ether).
Butyl, l.c.l., dms., dlvd.....lb. .30 - —
Ethyl (see Ether, sulphuric).
Nitrous, cons., bots., 100 lbs..lb. .98 - 1.10
Sulphuric, cons., dms.....lb. .11 - .16
USP anesthesia, hospital, 1-lb. cns..lb. .74 - .75
Synthetic, dms., c.l., frt. alld. lb. .17 - —
l.c.l., same basis.....lb. .18 - —
tanks, same basis.....lb. .15 - —
Ethyl acetate, natural, fermentation, 85-88%, dms., c.l., frt. alld..lb. .20 - —
l.c.l., frt. alld.....lb. .20½- —
tanks, frt. alld.....lb. .19 - —
85-90%, dms., c.l., frt. alld. lb. .21 - —
l.c.l., frt. alld.....lb. .21½- —
tanks, frt. alld.....lb. .19½- —
90%, dms., c.l., frt. alld.lb. .21 - .21¼
l.c.l., frt. alld.....lb. .21½- .21¾
tanks, frt. alld.....lb. .19½- .19⅝

Ethyl acetate, natural, USP, dms. lb. .21¾- —
synthetic, 85-90%, dms., c.l., frt. alld..lb. .10½- —
l.c.l., frt. alld.....lb. .11 - —
tanks, frt. alld.....lb. .09½- —
95-98%, dms., c.l., frt. alld. lb. .11 - —
l.c.l., frt. alld.....lb. .11½- —
tanks, frt. alld.....lb. .10 - —
Acetoacetate, dms., c.l., works. lb. .50½- —
l.c.l., frt. alld.....lb. .51½- —
Benzoate, bots.....lb. .50 - .52
B-ethoxy propionate, dms., works..lb. .70 - —
Bromide, tech., 95%+, dms..lb. .36 - .40
Carbamate, dms., dlvd. E...lb. .58 - —
Chloride, tech., tanks.....lb. .13½- —
USP, bbls., cyl.....lb. .20 - .22
Cinnamate, cns.....lb. 3.65 - 3.85
Formate, dms., Agnue, Calif.lb. .26 - .32
Iodide, bots.....lb. 3.50 - 3.60
Lactate, dms., works.....lb. .38½- —
Myristate, dms., works.....lb. No prices
Oenanthate, dms.....lb. 1.10 - 1.15
Oleate, dms., l.c.l., works..lb. .47 - —
Oxalate, dms., frt. alld.....lb. .33 - —
Silicate, dist. (see Tetraethyl orthosilicate).
40% available SiO_2, dms., works..lb. .50 - —
Ethylcellulose, pkgs., 5,000 lbs., or more, works..lb. .50 - —
smaller lots, works.....lb. .52 - .60
Ethyldiethanolamine, dms., l.c.l., works..lb. .80 - —
Ethylene, dichloride, dms., works, frt. alld. E. of Rockies..lb. .06 - —
West of Rockies.....lb. .06½- —
l.c.l., works, frt. alld. E. of Rockies..lb. .00 - —
West of Rockies.....lb. .00½- —
tanks, frt. alld. E. of Rockies, lb. .07 - —
West of Rockies.....lb. .07½- —
Trichloride (see Trichloroethane).

Ethyleneglycol, dms., c.l., frt. alld. in E..lb. .10 - —
l.c.l., same basis.....lb. .11 - —
tanks, same basis.....lb. .09 - —
Monobutylether, dms., c.l., wks. lb. .17½- —
l.c.l., works.....lb. .18½- —
tanks, works .....lb. .16½- —
Monoethylether, dms., c.l., works..lb. .15½- —
l.c.l., works .....lb. .16½- —
tanks, works .....lb. .14½- —
Monoethylether, acetate, dms., c.l., works..lb. .18½- —
l.c.l., works .....lb. .14½- —
tanks, works .....lb. .12½- —
Monomethylether, dms., c.l., works..lb. .16½- —
l.c.l., works .....lb. .17½- —
tanks, works .....lb. .15½- —
Ethylethanolamine, dms., c.l., works..lb. .57 - —
l.c.l., works .....lb. .60 - —
Ethylmonoethanolamine, l.c.l., dms., works..lb. .80 - —
Ethylmorphine, hydrochloride, bots..oz.10.50 -10.75
Ethylvanillin, cns., 5 lbs. or more..lb. 6.75 - —
smaller lots .....lb. 6.50 - 6.00
Eucalyptol, cns., dms.....lb. 2.65 - 3.25
Eucalyptus leaves, bls.....lb. .14 - .15
Eugenol, prime, USP XII....lb 2.60 - 3.50
Euphorbia, bls. .....lb. .20 - .22

F

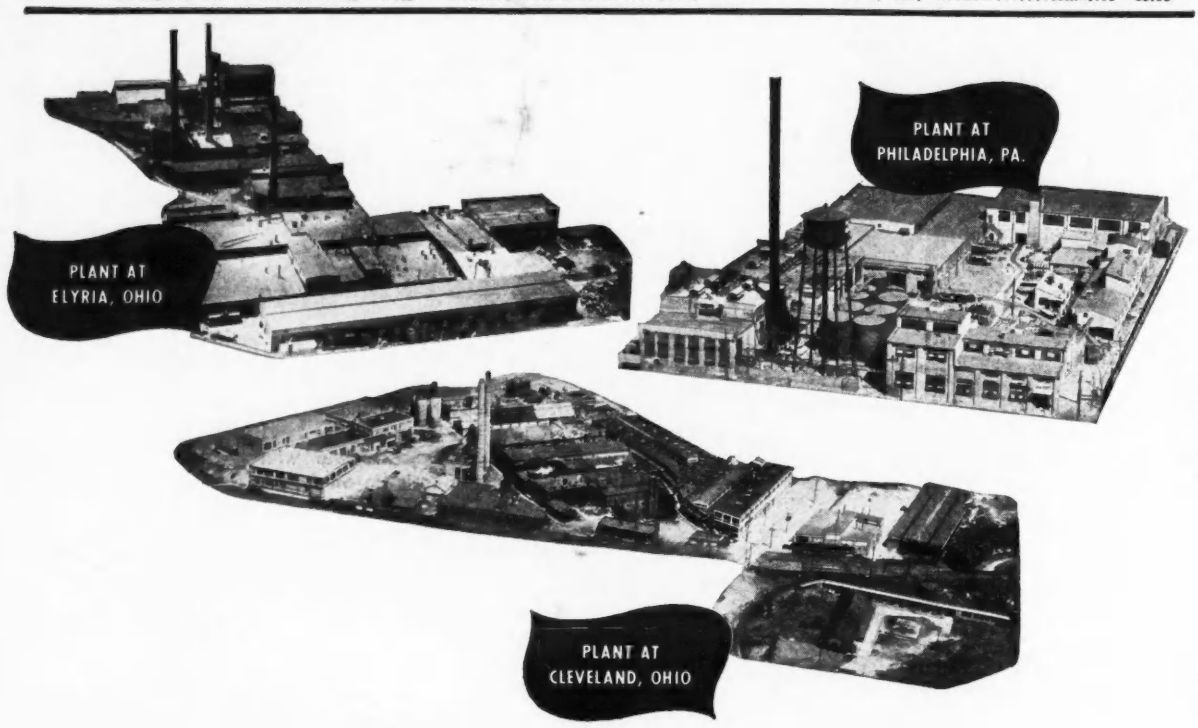
Feldspar, enamel, 100 mesh..ton.17.00 -20.50
bulk, c.l. .....ton.14.00 -17.50
glass, 20 mesh, bgs., works, min. 2 tons..ton.12.75 -16.25
bulk, c.l. .....ton. 9.75 -12.25
pottery, bgs., l.c.l., works, min. 2 tons..ton.20.00 -22.00
bulk, c.l., works.....ton.17.00 -19.00

Fennel seed, Argentine, bgs., futures..lb. .13 - .18¼
Indian, bgs., afloat.....lb. .25½- .26
Fenugreek, domestic, bgs.....lb. No stocks
Indian, bgs. .....lb. No stocks
Morocco, bgs. .....lb. .11¼ Nom.
futures, bgs. .....lb. .10½- .11
Ferric sulphate (see Iron sulphate, ferric).
Film scrap, colored, cs., works.lb. .13½- .15
water-white, cs., works.....lb. .14½- .17
Fir balsam, Canada, cns....gal.22.00 -22.50
Oregon, bbls.....gal. 2.65 - 2.70
Fishberries, bgs. .....lb. .24 - .25
Fishliver oils (see Oil, fishliver).
Fishmeal, grd., 60% protein, bgs., E. works..ton.130.00 - —
65% protein, bgs., E. works. ton.130.00 - —
Fishscrap, dried, 60% protein, bulk, East coast..ton.125.00 -130.00
Flake white, bbls.....lb. .09 - —
kegs .....lb. .11 - —
Flaseed, black, bgs.....lb. .55 - .60
Blonde, bgs.....lb. .31 - .33
Fluorspar, No. 1, ground, 95-98% CaF_2 bulk, c.l., mines, net ton.37.00 - —
washed, gravel, 70% or more CaF_2, c.l., bulk, mines. ton.33.00 - —
65%, c.l., bulk, mines....ton.32.00 - —
60%, c.l., bulk, mines....ton.31.00 - —
less than 60%, c.l., bulk, mines..ton.30.00 - —
Formaldehyde, bbls., c.l., works. lb. .0596- —
l.c.l., works.....lb. .0645- —
dms., extra, c.l., works.....lb. .0495- .0595
l.c.l., works.....lb. .0545- .0630
tanks, works.....lb. .0320- .0420
tanktrucks, dlvd., N.Y.C....lb. .0345- —
Fringetree bark, bls.....lb. .75 - .76
Fuller's earth, dom., powd., bgs., c.l., Fla., Ga. mines..ton. 8.50 -15.00
Tex. mines.....ton.12.50 - —
spent, bulk, Bayonne...ton. 8.00 - —
imp., bgs., c.l.....ton.30.00 -40.00
Furfural, ref., dms., c.l., works. lb. .15½- —
cns., dms., l.c.l., works....lb. .15½- .25½
tech., dms., c.l., works....lb. .13 - —
l.c.l., cns., dms.....lb. .15½- .20½
tanks, works .....lb. .09½- —
Fusel oil, dms., c.l.....lb. .26½- —
l.c.l. .....lb. .27½- —
tanks .....lb. .25 - —
Fustic extract, cryst., No. 1, bbls., l.c.l..lb. .41 - —
No. 1A, bbls., l.c.l.....lb. .40 - —
No. 2, bbls., l.c.l.....lb. .39 - —
No. 3, bbls., l.c.l.....lb. .37 - —
liquid, No. 0, bbls., l.c.l...lb. .21½- —
No. 1, bbls., l.c.l.....lb. .20 - —
No. 2, bbls., l.c.l.....lb. .19 - —
No. 3, bbls., l.c.l.....lb. .16½- —
solid, No. 1, bxs., l.c.l.....lb. .27 - —

G

G salt, bbls.....lb. .50 - —
Galangal root, bls.....lb. .26 - .28
Gambier, cube, Singapore, cs..lb. No stocks.
Extract, bbls. .....lb. No stocks.
Gammapicoline, 95%, dms., c.l., works..lb. 1.35 - —
Gasoline, at refinery, ex tax Arkansas, 73-75 octane, tanks. gal. .07125- —
Bayonne, 74 octane, tanks. gal. .0780- .09
Gulf Coast, 73-75 octane, tanks..gal. .0625- .07¼
Group 3, 73-75 octane, tanks. gal. .06¾- .07
Pennsylvania, western, U. S. motor, 74 octane, leaded, tanks..gal. .07¾- .09
natural, 26/70 octane, Group 3, tanks..gal. .06 -.0612½
Gelatin, silver label, ctns., dlvd. lb. 1.25 - —
export, cs. .....lb. 1.35 - —
Silver label prices 5c. higher for deliveries in Ariz., Calif., Colo., Idaho, Mont., Nev., N. Mex., Ore., Tex., Utah, Wash. and Wyo.
Gelsemium root, bls.....lb. .35 - .40
Gentian root, bls. .....lb. .29 - .30
grd., bbls., bxs.....lb. .34 - .36
powd., bbls., bxs.....lb. .34 - .38
Geraniol, 92-96%, cns., dms....lb. 9.00 -12.00
Geranyl acetate, cns.....lb. 5.02 -12.50
Ginger, African, No. 1, bls....lb. .14½- .15
Calicut, Romee-type, bgs...lb. .16 - .16½
Cochin, bleached, bgs.....lb. .16½- .17
unbleached, bgs. .....lb. .15¼- .15¾
Jamaica, No. 1, bgs.....lb. .18 - .18½
No. 2, bgs. .....lb. .17 - .17½
No. 3, bgs.....lb. .15¼- .15¾
Rhattoon, bgs. .....lb. .14 - .14½
Glauber's salt, anhyd. (see Soda sulphate).
cryst., bgs., works....100 lbs. 1.25 - 1.75
l.c.l., bgs., works..100 lbs. 1.65 - 2.10
Glue, bone, calcium type, 24 millipoise, 36 jellygrams, bgs., c.l., East of Midwest. lb. .21 - —
30/56, bgs., c.l., same basis..lb. .21 - —
58/82, bgs., c.l., same basis..lb. .17 - .22½
82/108, bgs., c.l., same basis..lb. .18½- .23½
Bone glue, l.c.l. prices 1c. higher than c.l.
Hide, 100-121 (jelly test in grams), bgs., c.l., dlvd..lb. .14 - .21½
122-149, bgs., c.l., dlvd....lb. .15 - .22½
150-177, bgs., c.l., dlvd....lb. .16 - .23½
178-206, bgs., c.l., dlvd....lb. .17 - .24½
207-236, bgs., c.l., dlvd....lb. .18 - .25½
237-266, bgs., c.l., dlvd....lb. .19 - .26½
267-295, bgs., c.l., dlvd....lb. .20 - .27½
296-330, bgs., c.l., dlvd....lb. .21 - .28½
331-362, bgs., c.l., dlvd....lb. .22 - .29½
363-394, bgs., c.l., dlvd....lb. .23 - .30½
395-427, bgs., c.l., dlvd....lb. .24 - .31½
428-460, bgs., c.l., dlvd....lb. .25 - .32½
461-494, bgs., c.l., dlvd....lb. .26 - .33½
495-529, bgs., c.l., dlvd....lb. .27 - .34½
Hide glue l.c.l., prices 1c. higher than c.l. bbls., ½c. over bgs.

Glycerin, crude, saponification, 88%, to refiners, tanks..lb. .45 - .50
soaplye, 80%, tanks.....lb. .35 - .50
dynamite, dms., c.l.....lb. .55¼- .75¼
l.c.l. .....lb. .56¾- .75¾
tanks .....lb. .55 - .75
high gravity, dms., c.l.....lb. .55¼- .75¼
l.c.l. .....lb. .56¾- .75¾
tanks .....lb. .55 - .75
refined, B.P., 98%, dms., c.l..lb. .55¾- .75¾
tanks .....lb. .55½- .75½
USP, 95%, dms., c.l.....lb. .55¼- .75¼
l.c.l. .....lb. .55¾- .75¾
tanks .....lb. .55 - .75
yellow, distilled, dms., c.l...lb. .55 - .75
tanks .....lb. .55 - .75
Glycine, USP (see Acid, ammocetic).
Glycol, boriborate, dms.....lb. .22 - —
Stearate, dms.....lb. .26 - —
Gold chloride, acid-brown, bots. oz.20.00 -20.50
acid-yellow, bots.....oz.18.75 -19.00



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Goldenseal roots, bls. lb. 8.50 - 8.75
powd., bxs. lb. 9.00 - 9.25
Gold of pleasure seed, bgs. lb. No stocks
Grains of paradise, bgs. lb. .48 - .49
Graphite, dom., crystalline, 80% through 50 mesh, graphitic carbon content 65-70%, bgs., whse. lb. .04½- —
70-75%, bgs., same basis, lb. .05 - —
75-80%, same basis. lb. .05½- —
80-85%, bgs., same basis, lb. .06 - —
85-90%, bgs., same basis. lb. .07 - —
90% and up, same basis. lb. .08 - —
imported, amorphous, powd., dlvd. lb. .04 - .06
crystalline, 88-90%, powd., same basis. lb. .14 - .16
90-92%, powd., same basis. lb. .18 - .19
97% powd., same basis. lb. .22 - .25
flake, No. 1, 90-95%, 200-lb. crtns, same basis. lb. .21 - .22
No. 2, same basis. lb. .22 - .24
Grease, choice, loose. lb. .23 - —
house, loose. lb. .21¾- —
yellow, loose. lb. .23 - —
white, loose. lb. .22¼- —
Wool (see Adeps lanae and Degras).
Green, brilliant, thioflavin toner, molybdic, kegs, works. lb. 3.25 - —
tungstic, kgs., works. lb. 3.75 - —
Green, chrome, CP, dark, light, medium, blue content up to 5%, bbls., dlvd. N. of Tenn. and N.C. E. of Miss. River, including St. Paul, Minneapolis, Davenport, Rock Island, St. Louis. lb. .29 - —
6-10%, bbls., same basis. lb. .30 - —
11-15%, bbls., same basis. lb. .31 - —
16-20%, bbls., same basis. lb. .31½- —
21-25%, bbls., same basis. lb. .32¼- —
26-30%, bbls., same basis. lb. .32¾- —
31-35%, bbls., same basis. lb. .33½- —
36-40%, bbls., same basis. lb. .35½- —
41-45%, bbls., same basis. lb. .37 - —
46-50%, bbls., same basis. lb. .38¾- —
50% and over, bbls., same basis. lb. .39¾- —
reduced color, 5%, bbls. same basis. lb. .10 - —
6-10%, bbls., same basis. lb. .10¾- —
11-13%, bbls., same basis. lb. .11¼- —
14-16%, bbls., same basis. lb. .12 - —
17-19%, bbls., same basis. lb. .12¾- —
20-21%, bbls., same basis. lb. .12½- —
22-23%, bbls., same basis. lb. .12¾- —
24-25%, bbls., same basis. lb. .13 - —
26-27%, bbls., same basis. lb. .13½- —
28-29%, bbls., same basis. lb. .14 - —
30-31%, bbls., same basis. lb. .15 - —
32-33%, bbls., same basis. lb. .16¾- —
Green, chrome, reduced color, 34-35%, bbls., same basis. lb. .17¼- —
36-40%, bbls., same basis. lb. .20 - —
41-45%, bbls., same basis. lb. .22¼- —
46-50%, bbls., same basis. lb. .23¾- —
51-55%, bbls., same basis. lb. .23½- —
56-60%, bbls., same basis. lb. .24 - —
61-65%, bbls., same basis. lb. .25 - —
66-70%, bbls., same basis. lb. .26¼- —

Chrome green prices are ½c. higher dlvd. Ala., Fla., Ga., La. (Shreveport, 1½c.), Miss., N. C., S. C., Tenn., Texas (Dallas, Ft. Worth, 1¼c.; El Paso, 2c.), Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph, 1c. higher dlvd. Pac. Coast; for Denver, Pueblo, Salt Lake City and Wichita, prices are equalized with Chicago.

Chrome oxide, pure, bgs., works. lb. .29½- .36½
Malachite, thioflavin toner, molybdic, bbls., works. lb. 3.00 - —
tungstic, bbls., works. lb. 3.50 - —
Phthalocyanin, tetrahydroxide (hydrated chromium oxide), bbls., works. lb. .85 - —
toner, bbls., works. lb. 4.00 - 5.00
Paris (see P).
Tungstated, brilliant, kgs. lb. 3.00 - 4.00
emerald, kgs. lb. 2.60 - —
Verdigris (see V).
Green dyes (see Dyes, coaltar).
Grindelia robusta, bls. lb. .30 - .35
Guaiac, resin, cs. lb. .32 - .34
Wood, bls. lb. .35 - .36
Guaiacol, cryst., N.F., tins. lb. 1.60 - 1.65
Liquid, N.F., bots., cbys. lb. 1.50 - 1.60
Carbonate, dms. lb. 2.40 - 2.45
Guarana, powd., cs. lb. 2.00 - 2.10

Gum accroides (see Gum, yacca).
Aloe (see A).
Ammoniac, tears, cs. lb. .90 - .95
Arabic, amber, sorts, bgs. lb. .14½- .15
white, sorts, 1, bgs. lb. .28 - .29
Asphaltum (see A).
Asafetida (see A).
Benzoin, Sumatra, cs. lb. .85 - .90
Camphor (see C).
Copal, Congo, bgs. lb. No prices.
East India, bgs. lb. No prices.
Manila, baskets lb. No prices.
Dammar, cs. lb. No prices.
Elemi, cns. lb. No prices.
Ester, gum-resin type, dms., c.l., dlvd., Ill., Ind., Ky., Mich., Mid-Atl. States, N. England States, Minneapolis, N. C., Ohio, St. Louis, St. Paul, Va., W. Va. any quantity. lb. .20 - —
lb. .21 - —
wood-resin type, dms., any quantity, dlvd. Ill., Ind., etc. lb. .19 - —
Euphorbium, cs. lb. 1.50 Nom.
Galbanum, cs. lb. .95 - 1.00
Gamboge, pipes, cs. lb. 2.40 - 2.50
powd., bbls. lb. 2.50 - 2.60
Ghatti, bgs. lb. No stocks.
Guaiac (see Gualac resin).
Karaya, bbls., bxs., dms. lb. .21 - .30
Kauri, cs. lb. No prices.
Locust bean, powd., bbls. lb. .50 - .60
Mastic, cs. lb. 2.75 - 3.00
Myrrh, cs. lb. .43 - .50
Olibanum, siftings, cs. lb. .12 - .13
tears, cs. lb. .27 - .45
Opium (see O).
Red (see Gum yacca).
Rosin (see R).
Sandarac, bgs. lb. .90 - .95
Scammony, cs. lb. 1.50 - 1.55
Talha, bgs. lb. .10 - .11
Tragacanth, No. 1, cs. lb. 4.50 - 5.00
No. 2, cs. lb. 3.75 - 3.80
No. 3, cs. lb. 3.20 - 3.45
Yacca, bgs. lb. No prices.
Gypsum, Keene's cement, paper bgs., c.l., Acme, Tex., frt. equald. ton. 22.65 - —
Harlem River, N. Y., frt. equald. ton. 28.25 - —
Medicine Lodge, Kan., frt. equald. ton. 17.00 - —
New Brighton, N. Y., frt. equald. ton. 30.65 - —
Southard, Okla., frt. equald. ton. 17.00 - —
Sweetwater, Tex., frt. equald. ton. 21.45 - —
Plaster of Paris, paper bgs., c.l., Acme, Texas, frt. equald. ton. 12.50 - —
Blue Rapids, Kan., frt. equald. ton. 10.50 - —
Harlem River, N. Y., frt. equald. ton. 12.00 - —
Medicine Lodge, Kan., frt. equald. ton. 12.50 - —
New Brighton, N. Y., frt. equald. ton. 13.00 - —
Southard, Okla., frt. equald. ton. 12.50 - —
Sweetwater, Tex., frt. equald. ton. 12.50 - —
Stucco, paper bgs., c.l., Acme, Texas; Akron, N. Y.; Blue Rapids, Kan.; Clarence Center, N. Y.; Fort Dodge, Ia.; Grand Rapids, Mich.; Gypsum, Ohio; Harlem River, N. Y.; National City, Mich.; New Brighton, N. Y.; Plasterco, Ga.; Portsmouth, N. H.; Roton, Tex.; Southard, Okla.; Sweetwater, Tex.; frt. equald. ton. 8.00 - —
Saltville, Va., frt. equald. ton. 9.00 - —
Terra alba, paper bgs., c.l., Harlem River, N.Y.; New Brighton, N. Y., same basis. lb. 14.40 - —

H

Hawthorn berries, bgs. lb. .60 - .65
Heliotropin, cryst., cns. lb. 3.95 - 4.00
Hellebore, white, powd., bbls. lb. .46 - .47
Helonias root, bls. lb. 2.25 - 2.30
Hematine extract, cryst., No. 6, bbls., l.c.l. lb. .41 - —
No. 1, bbls., l.c.l. lb. .40 - —
No. 1A, bbls., l.c.l. lb. .37 - —
No. 2, bbls., l.c.l. lb. .36 - —
No. 3, bbls., l.c.l. lb. .34 - —
No. 4, bbls., l.c.l. lb. .32 - —
No. 5, bbls., l.c.l. lb. .30 - —
paste, No. 1, bbls., l.c.l. lb. .17½- —
No. 2, bbls., l.c.l. lb. .16¼- —
No. 3, bbls., l.c.l. lb. .15½- —
red, No. 4, bbls., l.c.l. lb. .14½- —
Hemlock bark extract, 25% tan, bbls., c.l., works. lb. No stocks
tanks, works. lb. No stocks
Henbane leaves, bls. lb. 1.00 - 1.25
Henna leaves, bls. lb. .29 - .30
powd., bbls., bxs. lb. .34 - .36
Heptane, industrial grade, 50°-100° C., dms., c.l., Group 3, gal. .12½- —
l.c.l., Group 3. gal. .19 - —
tanks, Group 3. gal. .10½- —
77°-115° C., dms., c.l., Group 3. gal. .13 - —
l.c.l., Group 3. gal. .19 - —
tanks, Group 3 gal. .10½- —
laboratory grade, dms., c.l., Group 3. gal. .16 - —
l.c.l., Group 3. gal. .29 - .55
Hexalin (see cyclohexanol).
Hexaethyl tetraphosphate, cns., works. lb. 1.25 - —
dms., c.l., works. lb. .80 - —
l.c.l., works. lb. .90 - 1.00
Hexamethylenetetramine, tech., bbls., 1,000-lb. lots, Perth Amboy or N.Y.C. lb. .24 - —
smaller lots, same basis. lb. .25 - —
USP, dms., 500 lbs. or more, same basis. lb. .35 - —
smaller lots, same basis. lb. .36 - —
Hexane, 60°-70° C., industrial grades, dms., c.l., Group 3, gal. .13¼- —
l.c.l., Group 3. gal. .19 - —
tanks, Group 3. gal. .10¼- .11
laboratory grade, dms., c.l., Group 3. gal. .16 - —
l.c.l., Group 3. gal. .29 - .55
Hexanol, normal, dms., l.c.l., works. lb. .25 - —
Homatropine hydrobromide, bots. oz. 15.00 -25.00
Hoofmeal, 17-18% ammonia, bulk, c.l., Chicago. unit-ton. 8.50 - —
Hops, NF, bls. lb. .55 - 1.20
Horehound, bls. lb. .12½- .13
Hydrangea, root, bls. lb. .22 - .25
Hydrastine, alkaloid, bots. oz. 20.00 -22.00
Hydrochloride, bots. oz. 20.00 -22.00
Sulphate, bots. oz. 29.00 -32.00
Hydrastinine, 10-gr. bots. bot. 1.95 - —
Hydrastis (see Goldenseal).
Hydrofuramide, dms., fib. cns., works. lb. .30 - .40

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Hydrogen peroxide, USP, bbls.	lb.	.08¾-	.04
100 vols., cbys., E. of Miss. River or West coast via Panama Canal	lb.	.15½-	.18½
Hydroquinine, bbls., dms.	lb.	.90 -	.94
Hydroxycitronellal, cns.	lb.	17.50 -	21.60
dms., extra, ret'able, dlvd.	lb.	No prices	
Hyoscine hydrobromide, bots.	oz.	39.00 -	45.00
Hyoscyamine, bots.	oz.	18.00 -	20.00
Hydrobromide, bots.	oz.	18.00 -	19.50
Sulphate, bots.	oz.	14.00 -	19.50
Hypernic extract, cryst., No. 1, bbls., l.c.l.	lb.	.51 -	—
No. 2, bbls., l.c.l.	lb.	.43 -	—
liquid, No. 1, bbls., l.c.l.	lb.	.28 -	—
No. 2, bbls., l.c.l.	lb.	.23 -	—
solid, No. 1, bxs., l.c.l.	lb.	.33 -	—
Hyssop, bgs.	lb.	.60 -	.61
leaves, bgs.	lb.	.69 -	.70

I

Iceland moss, bgs.	lb.	.50 -	.53
Ichthammol, NF, bots.	lb.	2.45 -	—
Indian red (see Red, Indian).			
Indigo, nat., chests	lb.	2.14 -	2.30
synth., paste, bots.	lb.	.16½-	.19
powd., bbls.	lb.	.74½-	.85
Indol, CP, bots.	lb.	19.00 -	22.00
Inositol, tins, works	lb.	5.00 -	—
Insect flowers (see Pyrethrum).			
Iodine, crude, 160-lb. kgs., ex whse., Staten Island	lb.	1.42½-	—
resubl., 5-lb. bots., jars	lb.	2.10 -	2.20
Iodoform, 100-lb. dms., kgs.	lb.	4.45 -	—
Ionone, ketone, bot.	lb.	6.00 -	14.00
Methyl, bot.	lb.	6.25 -	16.25
Ipecac root, bgs.	lb.	6.00 -	6.25
powd., bgs.	lb.	6.25 -	6.50
Irish moss, bleached, prime	lb.	.25 -	.30
Iron acetate, liquor, bbls., c.l., dlvd.	lb.	.17 -	—
l.c.l., dlvd.	lb.	.18 -	—
solut., USP XX, 100-lb. cbys.	lb.	.17 -	—
50-lb. djns.	lb.	.18 -	—
Chloride (ferric), anhydr., tech., dms., c.l., works.	100 lbs.	4.90 -	5.20
l.c.l., works	100 lbs.	6.50 -	6.65
cryst., tech., bbls., works, frt. alld.	100 lbs.	4.00 -	6.00
USP X, lump, bbls.	lb.	.07 -	.08¼
solut., 42 Be, cbys., works, frt. alld. or equald.	lb.	.06½-	.08
djns., same basis	lb.	.10 -	—
Citrate, gran., dms.	lb.	.72 -	.74
Glycerophosphate, N.F., powd.	lb.	4.35 -	—
Hypophosphite, bbls., dms.	lb.	1.50 -	1.52
Iodide, bots.	lb.	3.48 -	3.63
Naphthenate, 6% Fe, 50-gal. dms.	lb.	.16½-	.17½
Nitrate, red, tech., dms.	lb.	.03½-	.04
Oxalate, gran., dms.	lb.	.33 -	.35
powd., cns.	lb.	.52 -	—
kgs.	lb.	.47 -	.49
Phosphate, soluble, NF, gran., cs.	lb.	.54 -	.57
Pyrophosphate, NF, gran., soluble, dms.	lb.	.59 -	.62
Reduced, 20%, kgs.	lb.	.65 -	.75
Resinate, 7.4% Fe, 100-lb. dms.	lb.	.21 -	—
Sulphate (ferric), anhyd., bgs., c.l., works.	ton.	35.00 -	—
l.c.l., works	ton.	40.00 -	—
partially hydrated bgs., c.l., works.	ton.	26.50 -	—
(ferrous) tech. (see Copperas).			
USP, cryst., bbls., dms.	lb.	.06 -	.08
Tallate, 4% Fe, 50-gal. dms.	lb.	.16¼-	—
Iron-ammonia citrate, brown, green, gran., dms.	lb.	.40 -	.43
Oxalate, bbls.	lb.	.23½-	—
dms., kgs.	lb.	.25½-	.26½
Iron-soda oxalate, bbls., dms.	lb.	.23½-	.26½
Isobornyl acetate, cns., works.	lb.	.80 -	.95
Isobornyl thiocyanoacetate, dms., c.l., works.	gal.	4.35 -	—
l.c.l., works	gal.	4.45 -	4.85
tanks, works	gal.	4.23 -	—
Isobutyl acetate, cns.	lb.	1.10 -	—
Propionate, cns.	lb.	No prices	
Isobutyraldehyde, dms., works.	lb.	.33 -	—
10-gallon lots, works	lb.	.36 -	—
Isoeugenol, extra cns.	lb.	3.75 -	4.35
Isopentane, dms., works	lb.	.45 -	.55
Isophorone, dms., c.l., works.	lb.	.21 -	—
l.c.l., works	lb.	.22 -	—
tanks, works	lb.	.20 -	—
Isopropanol (see Alcohol, isopropyl).			
Isopropyl acetate, dms., c.l., E. of Rockies, frt. alld.	lb.	.1160-	—
l.c.l. E. of Rockies, same basis.	lb.	.1210-	—
tanks, E. of Rockies, same basis.	lb.	.1100-	—
Alcohol (see Alcohol, Isopropyl).			
Ether, dms., c.l., dlvd.	lb.	.06 -	—
l.c.l.	lb.	.06½-	—
tanks, dlvd.	lb.	.04½-	—
Isopropylamine, dms., works.	lb.	.26 -	—

J

Jaborandi leaves, bls.	lb.	.25 -	.28
Jalap root, NF, bls.	lb.	.45 -	.50
powd., bbls., bxs.	lb.	.55 -	.60
Resin, lump, cns.	lb.	5.85 -	—
powd., bxs.	lb.	5.90 -	—
Juniper berries, bgs.	lb.	.19 -	.20
Juniper tar, USP, dms.	lb.	.68 -	1.00

K

Kamala, powd., cns.	lb.	.46 -	.48
Kaolin (see China clay).			
Kava kava root, bls.	lb.	.35 -	.40
Kerosene, at refinery: Ark., 42-44 w.w., tanks.	gal.	.05¾-	—
Bayonne, 41-43, w.w., tanks.	gal.	.061 -	—
California, 40-43, w.w., tanks.	gal.	.07 -	—
Gulf ports, 41-43 w.w., tanks.	gal.	.05½-	.05925
Okla-Tex., 41-43 w.w., tanks.	gal.	.05¾-	.06
Penn., 45 w.w., tanks.	gal.	.07 -	.07¼
47 w.w., tanks.	gal.	.07625-	.08
Kola nuts, bgs.	lb.	.10 -	.11
Kyanite, imp., low iron content, 10-mesh, whse.	ton.	85.00 -	95.00
calcined, grain, 10-mesh, whse.	ton.	95.00 -	105.00

L

Ladyslipper root, bls.	lb.	1.35 -	1.40
Lanolin (see Adeps lanae).			
Lard, cash, Chicago, tcs.	lb.	.29½ Nom.	
Larkspur seed, bgs.	lb.	.65 -	.70
Laurel berries, bls.	lb.	.26 -	.26
Leaves, Algerian, bls.	lb.	.13 -	.13½
Cyprus, bls.	lb.	.28 -	.29
Greek, bls., futures.	lb.	.20 -	.21
Italian, bls.	lb.	.13 -	.13½
Portuguese, choice, bls.	lb.	.17 -	.17½
ordinary, bls.	lb.	.13½-	.14
Turkish, bls.	lb.	.15 -	.15½
Lavender flowers, medium, bls.	lb.	.60 -	.65
ordinary, bls.	lb.	.35 -	.45
select, bls.	lb.	.65 -	.70
Lead, acetate, white, broken, bbls.	lb.	.17 -	—
cryst., bbls.	lb.	.17¾-	—
gran., powd., bbls.	lb.	.17¾-	—
Arsenate, basic powder, 3-lb. bgs. or larger, c.l.	lb.	.20 -	—
l.c.l.	lb.	.21 -	.22
1-lb. bags, c.l.	lb.	.27½-	—
l.c.l.	lb.	.28½-	.29½
Lead arsenate prices are works or whse. basis, frt. alld. to dest. East.			
Blue, basic sulphate, bbls., c.l., 20-ton lots, dlvd. E.	lb.	.13¾-	—
dlvd. Ariz., Cal., Col., Idaho, Mont., Nev., N. M., Ore., Utah, Wash., Wyo.	lb.	.14 -	—
l.c.l., dlvd. E.	lb.	.14 -	—
dlvd. Ariz., Cal., Col., Idaho, Mont., Nev., N. M., Ore., Utah, Wash. Wyo.	lb.	.14½-	—
Carbonate (see Lead, white).			
Chloride, fib. dms.	lb.	.49 -	—
Iodide, NF V, jars	lb.	2.94 -	—
Linoleate, solid, 13%, bbls.	lb.	.41¾-	—
Metal,[5] (see Protective Coatings Materials market).			
Metallic paste, dms., works.	lb.	No stocks.	
Naphthenate, 20% Pb, liquid, dms.	lb.	.18½-	—
30% Pb, liquid, dms.	lb.	.22½-	—
37% Pb, solid, dms.	lb.	.27½-	—
Nitrate, bbls.	lb.	.15½-	.15½
Oleate, bbls.	lb.	.17¾-	—
Peroxide, powd., tech., bbls.,	lb.	.23 -	.28
Lead, red, 95% Pb_3O_4 or less, bbls., c.l. (20 tons), dlvd. Ala., Ariz., Colo., Fla., Ga., Idaho, La., Miss., Mont., Nev., N. Mex., Tex., Utah, Wyo., and E. of Cascade Mts. in Ore. and Wash.	lb.	.15¾-	—
other points	lb.	.15½-	—
l.c.l., 5 tons, dlvd. Ala., Cal., Fla., Ga., La., Miss., Tex., and W. of Cascade Mts. in Ore. and Wash.	lb.	.16¼-	—
Ariz., Idaho, Nev., Utah, and E. of Cascade Mts. in Ore. and Wash.	lb.	.16¾-	—
Colo., Mont., N. Mex., Wyo.	lb.	.16½-	—
other points	lb.	.16¾-	—
smaller lots, Ala., etc.	lb.	.16¾-	—
Ariz., etc.	lb.	.17¼-	—
Colo., etc.	lb.	.17 -	—
other points	lb.	.16½-	—
in oil, kgs.	lb.	.24¼-	—
97% Pb_3O_4, bbls., c.l. (20 tons), dlvd., Ala., Ariz., Colo., Fla., Ga., Idaho, La., Miss., Mont., Nev., N. Mex., Tex., Utah, Wyo. and E. of Cascade Mts. in Wash. and Ore.	lb.	.16 -	—
other points	lb.	.16½-	—
l.c.l., 5 tons, dlvd. Ala., etc.	lb.	.17 -	—
Ariz., etc.	lb.	.16¼-	—
Colo., etc.	lb.	.16¼-	—
other points	lb.	.16½-	—
smaller lots, dlvd. Ala.	lb.	.17 -	—
Ariz., etc.	lb.	.17½-	—
Colo., etc.	lb.	.17¼-	—
other points	lb.	.16¾-	—
Lead, red, 98% Pb_3O_4, bbls., c.l. (20 tons), dlvd. Ala., etc.	lb.	.16¼-	—
other points	lb.	.16 -	—
l.c.l., 5 tons, dlvd. Ala., etc.	lb.	.16¾-	—
Ariz., etc.	lb.	.17¼-	—
Colo., etc.	lb.	.17 -	—
other points	lb.	.16½-	—
smaller lots, dlvd. Ala., etc.	lb.	.17¼-	—
Ariz., etc.	lb.	.17¾-	—
Colo., etc.	lb.	.17½-	—
other points	lb.	.16¾-	—
Resinate, precip., 23.8% Pb, dms.	lb.	.22½-	—
Silicate, bgs.	lb.	.15 -	.15½
Soyate, 20.15% Pb., dms.	lb.	.22¾-	—
Stearate, bbls.	lb.	.34½-	.35½
Sulphate (see Lead, blue; Lead, white, basic sulphate).			
Tallate, 10% Pb, dms.	lb.	.10 -	.11
Titanate, bgs., bbls., c.l., l.c.l., 6 tons, one delivery, E. frt. alld.	lb.	.11¼-	—
Pac. Cst., ex whse.	lb.	.11½-	—
smaller lots, E. frt. alld.	lb.	.11½-	—
Pac. Cst., ex whse.	lb.	.11¾-	—
White, basic carbonate, bbls., c.l., dlvd. Ariz., Calif., Colo., Idaho, Mont., Nev. N. Mex., Ore., Utah, Wash., and Wyo.	lb.	.14½-	—
dlvd. other points	lb.	.14¾-	—
l.c.l., dlvd. Ariz., etc.	lb.	.14¾-	—
other points	lb.	.14½-	—
basic sulphate, bbls., c.l., dlvd. Ariz., etc.	lb.	.13¾-	—
other points	lb.	.14 -	—
l.c.l., dlvd. Ariz., etc.	lb.	.14 -	—
other points	lb.	.13¾-	—
in oil, consumers, kgs.	lb.	.24½-	—
painters, kgs.	lb.	.33½-	—

FROM SHELL CHEMICAL

Diisobutylene

(Approx. 80% 2,4,4-Trimethylpentene-1—20% 2,4,4-Trimethylpentene-2)

Free of extraneous olefins . . . and containing tertiary double bonds only . . . this controlled-quality intermediate is available for immediate shipment in drum or tank car quantities

SPECIFICATIONS	
Distillation range	100°-103° C
Acidity	Less than .004% by weight (as H_2SO_4)
Color	Water white
Odor	Sweet

REACTIONS:

ALKYLATION: Both isomers yield identical alkylation products

HYDROGENATION, CHLORINATION, BROMINATION

ADDITION OF HCl, HBr, HI—H_2SO_4—HNO_3—HOCl, HOBr—O_3—N_2O_3—NO_2—NOCl—S_2Cl_2—SCl_2—H_2O_2, etc.

FOR CONSIDERATION IN THE MANUFACTURE OF:

Synthetic detergents — Phenolic resins

Wetting and dispersing agents

Oil-soluble varnishes — Textile finishing agents

Other products manufactured by Shell Chemical include: Acetone, Methyl Ethyl Ketone, Methyl Isobutyl Ketone, Methyl Isobutyl Carbinol, Tertiary Butyl Alcohol, Allyl Alcohol.

A request on your business letterhead will bring quotations and a sample if desired.

SHELL CHEMICAL CORPORATION

100 Bush Street, San Francisco 6 • 500 Fifth Avenue, New York 18

Los Angeles • Houston • St. Louis • Chicago • Cleveland • Boston

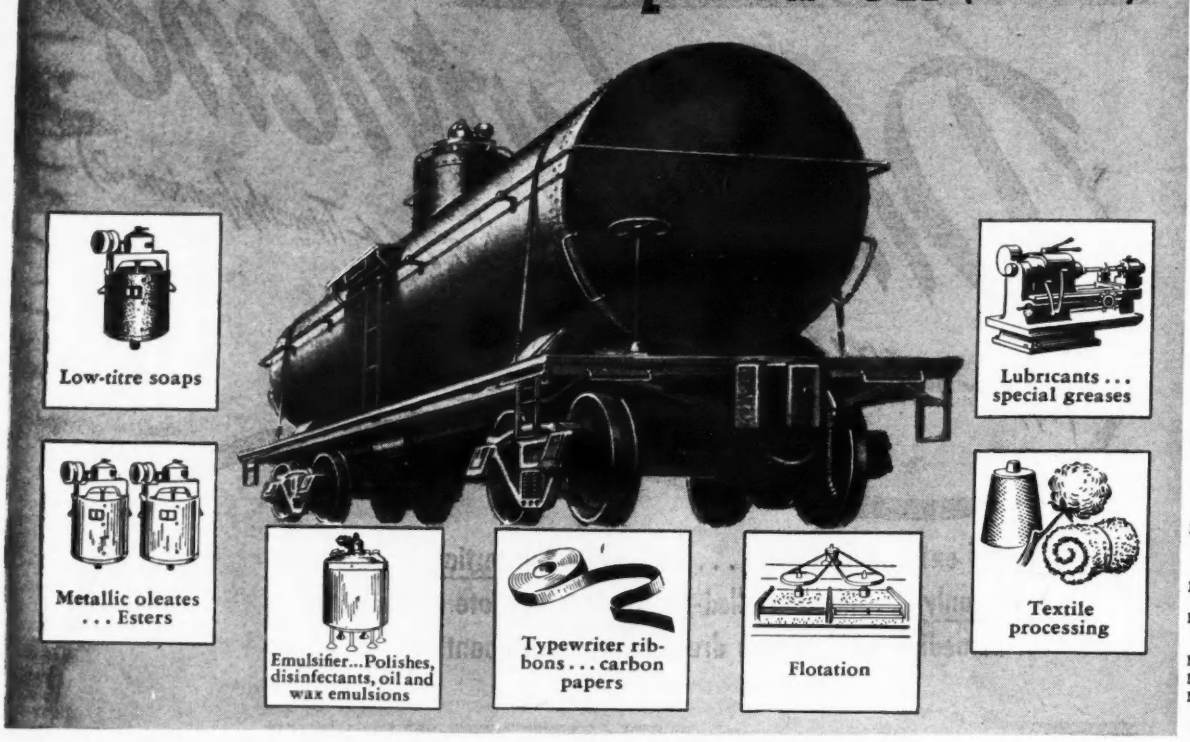
Lecithin, edible, dms., c.l.....lb. .36 - —
l.c.l. .....lb. .38½- .58½
tech., dms., c.l.....lb. .36 - —
l.c.l. .....lb. .38½- .58½
Lemon peel, bls.....lb. .35 - .40
Licorice extract, mass, cns....lb. .49 - .42
powd., bbls.....lb. .60 - .63
Root, natural, bls.....lb. .12 - .14
powd., bbls.....lb. .18 - .20
5-lb. bundles, cs.....lb. .65 - .66
Lignin extract, tanning grade, bgs., c.l., works..lb. .04¾- —
Lime, agricultural, bulk, works, tons. 9.00 - 9.50
Chemical (quicklime), lump, pebble, Adams, Mass..ton. 9.00 - —
Annville, Pa.....ton. 8.50 - —
Bellefonte, Pa.....ton. 8.50 - —
Berkeley, W. Va.....ton. 8.50 - —
Buffalo, N. Y.....ton.10.25 - —
Carey, Ohio.....ton. 7.00 - —
Cedar Hollow, Pa....ton. 9.00 - —
Lime, chemical (quicklime), lump, pebble, Crab Orchard, Tenn..ton. 7.90 - —
Eagle Mountain, Va..ton. 8.50 - —
Farnams, Mass.....ton. 9.00 - —
Gibsonburg, Ohio....ton. 7.50 - —
Hannibal, Mo.....ton. 7.50 - —
Keystone, Ala.....ton. 7.90 - —
Knoxville, Tenn.....ton. 7.90 - —
Limedale, Ark.....ton. 8.00 - —
Longview, Ala.....ton. 7.90 - —
Manistique, Mich....ton. 8.00 - —
Marblehead, Ohio....ton. 8.50 - —
Martinsburg, W. Va..ton. 8.50 - —
Menominee, Mich....ton. 8.00 - —
Mitchell, Ind.....ton. 7.50 - —
Nawals, Ala.....ton. 7.90 - —
Ripplemead, Va.....ton. 8.50 - —
Riverton, Va.....ton. 8.50 - —
Rockland, Maine.....ton. 8.00 - —
Scioto, Ohio.....ton. 6.50 - —
Sherwood, Texas....ton. 7.90 - —
Sherwood, Wisc.....ton. 8.50 - —

Lime, chemical (quicklime), lump, pebble, Springfield, Mo.. ton. 8.00 - —
Woodville, Ohio.....ton. 8.50 - —
York, Pa.....ton. 8.50 - —
Hydrated, paper bgs., Adams, Mass..ton.10.00 - —
Annville, Pa.....ton.10.00 - —
Bellefonte, Pa.....ton.10.00 - —
Berkeley, W. Va....ton.10.00 - —
Buffalo, N. Y.....ton.10.50 - —
Carey, Ohio.....ton. 8.50 - —
Cedar Hollow, Pa....ton.10.00 - —
Crab Orchard, Tenn..ton.10.65 - —
Eagle Mountain, Va..ton.10.00 - —
Farnams, Mass.....ton.10.00 - —
Gibsonburg, Ohio....ton. 9.50 - —
Hannibal, Mo.....ton. 9.50 - —
Keystone, Ala.....ton.11.65 - —
Knoxville, Tenn.....ton.10.65 - —
LeRoy, Minn.....ton.10.00 - —
Limedale, Ark.....ton.10.00 - —
Longview, Ala.....ton.11.65 - —
Manistique, Mich....ton. 9.50 - —
Marblehead, Ohio....ton.10.50 - —
Martinsburg, W. Va..ton. 8.50 - —
Mitchell, Ind.....ton.10.00 - —
Newala, Ala.....ton.11.65 - —
Petoskey, Mich.....ton.10.00 - —
Port Island, Mich...ton. 9.00 - —
Rapid City, S. Dak..ton.12.00 - —
Ripplemead, Va.....ton.10.00 - —
Rockland, Maine.....ton. 9.00 - —
Scioto, Ohio.....ton. 8.00 - —
Sherwood, Tenn.....ton.11.65 - —
Sherwood, Wisc.....ton.10.00 - —
Springfield, Mo.....ton. 9.00 - —
Woodville, Ohio.....ton. 8.50 - —
York, Pa.....ton.10.00 - —
Spray, Adams, Mass., paper bgs. ton.10.00 - —
Annville, Pa.....ton.10.00 - —
Bellefonte, Pa.....ton.10.00 - —
Carey, Ohio.....ton.11.00 - —
Farnams, Mass.....ton. 9.50 - —

Lime, spray, Gibsonburg, Ohio.. ton.10.00 - —
Marblehead, Ohio....ton.10.00 - —
Rockland, Maine.....ton.10.00 - —
Scioto, Ohio.....ton.10.00 - —
Woodville, Ohio.....ton.10.00 - —
York, Pa.....ton.10.00 - —
Lime salts (see Calcium).
Lime-ammonia-nitrogen[a] 20.5% N. (see Ammonia nitrate-lime-stone).
Limestone, ground, bulk, works.. ton. 1.40 - —
Linalool .....lb. 6.75 - 7.00
Linalyl acetate, ex bois de rose, bots..lb. 8.50 - —
ex lignaloe wood, bots.....lb. 7.75 - 8.40
ex petitgrain, bots.....lb. 5.15 - 6.90
Linden flowers with leaves, bls. lb. .40 - .42
without leaves, bls.....lb. .65 - .70
Linseed meal, 34%, bulk, mills. ton.78.00 -80.00
Litharge, com'l, powd., bbls., c.l., dlvd. Ala., Ariz., Colo., Fla., Ga., Idaho, La., Miss., Mont., Nev., N. Mex., Tex., Utah, Wyo. and E. of Cascade Mts. in Ore. and Wash..lb. .14½- —
other points.....lb. .14½- —
l.c.l., 5 tons, dlvd., Ala., Cal., Fla., Ga., La., Miss., Tex., and W. of Cascade Mts. in Ore. and Wash..lb. .15 - —
Ariz., Idaho, Nev., Utah, and E. of Cascade Mts. in Ore. and Wash..lb. .15½- —
Colo., Mont., N. Mex., Wyo..lb. .15¾- —
other points.....lb. .15 - —

Litharge, com'l powd., bbls., l.c.l., smaller lots, dlvd. Ala., etc..lb. .15¼- —
Ariz., etc.....lb. .16¼- —
Colo., etc.....lb. .16 - —
other points.....lb. .15¼- —
Lithium bromide, bbls., 100-lb. lots, works, frt. equald..lb. 1.90 - —
Carbonate, NF, bbls., kgs...lb. 1.15 - —
Chloride, jars.....lb. 1.15 - 1.65
Citrate, bbls., dms., kgs....lb. 1.40 - 1.45
Fluoride, bbls.....lb. 1.90 - —
Hydroxide, jars.....lb. 1.15 - 1.25
Lithopone, ordinary, bgs., c.l., (20 tons)..lb. .05¼- —
l.c.l. .....lb. .05¾- —
bbls., c.l.....lb. .05¾- —
l.c.l. .....lb. .06 - —
Titanated (high-strength), bgs. lb. .07½- —
smaller lots.....lb. .07½- —
bbls., c.l.....lb. .07½- —
smaller lots.....lb. .07¾- —
Lithopone, c.l., dlvd. Pac. Cst., ¼c. higher; l.c.l., ex whse. Pac. Cst. ½c. higher.
Liverwort leaves, bls.....lb. .75 - .90
Lobelia herb, bls.....lb. .80 - .85
Lobeline sulphate, bots., wks.oz. 25.50 -28.00
Logwood extract, crystals, No. 1, bbls., l.c.l..lb. .37 - —
No. 2, bbls., l.c.l.....lb. .35 - —
liquid, No. 1, bbls., c.l....lb. .18 - —
No. 2, bbls., l.c.l.....lb. .17 - —
No. 3, bbls., l.c.l.....lb. .16½- —
No. 4, bbls., l.c.l.....lb. .16 - —
solid, No. 1, bxs., l.c.l.....lb. .29 - —
No. 2, bxs., l.c.l.....lb. .26 - —
No. 4, bxs., l.c.l.....lb. .23 - —
No. 5, bxs., l.c.l.....lb. .21½- —
No. 6, bxs., l.c.l.....lb. .20½- .44½
Lovage root, imported bls....lb. 1.20 - 1.25
Lupulin, NF, tin.....lb.10.00 -11.00
Lycopodium, USP, cs.....lb. 2.50 - 3.00

Expect top performance from an Emery Red Oil (Elaines*)


Low-titre soaps
Metallic oleates . . . Esters
Emulsifier...Polishes, disinfectants, oil and wax emulsions
Typewriter ribbons . . . carbon papers
Flotation
Textile processing
Lubricants . . . special greases

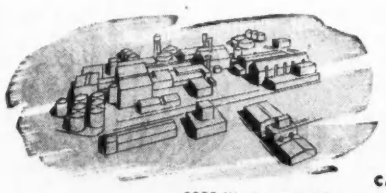
Oleic acid (Red Oil) is a versatile product fitted for important uses in many fields . . . uses for which there is no adequate substitute. In every case it is important to define the job to be done before selecting the red oil with specifications to fit. For example, color may not always be important but color stability frequently is. Lowest titre may be essential; on the other hand, regular titres may suffice. No matter, specifications are flexible enough to provide grades for every use.

To advise on such problems is the function of the Sales Service and Development Departments of Emery. They are ready to help you.

Emery Red Oils provide:

Wider range of characteristics
Standard grades for specific uses
Uniformity in specifications

*Elaine is the trade mark for all Emery Red Oils (Oleic Acids)



EMERY INDUSTRIES, INC.

LIQUID FATTY ACIDS

CAREW TOWER • CINCINNATI 2, OHIO

3002 Woolworth Building NEW YORK 7, N. Y.
187 Perry Street LOWELL, MASSACHUSETTS
401 N. Broad Street PHILADELPHIA 8, PA.

STEARIC ACID • OLEIC ACID • ANIMAL AND VEGETABLE FATTY ACIDS • TWITCHELL PRODUCTS • PLASTICIZERS

M

Mace, Banda, cs.....lb. No stocks.
West Indian, bgs., futures..lb. 1.70 - 1.80
Broken, bgs., futures.....lb. 1.40 - 1.50
Madder, Dutch, bbls.....lb. .24 - .25
Magnesia arsenate, bgs., cans, works..lb. .20 - .30
Calcined, tech., bbls., works, lb. .29 - —
USP, works .....lb. .31 - .33
Magnesia, carbonate, tech., bgs., c.l., frt. equald..lb. .07¼- —
l.c.l., frt. alld.....lb. .08¼- —
bbls., c.l., frt. equald....lb. .08½- —
l.c.l., frt. alld.....lb. .09½- —
kgs., c.l., frt. equald....lb. .09¾- —
l.c.l., frt. alld.....lb. .10¾- —
USP, bgs., c.l., frt. equald. lb. .09 - —
l.c.l., frt. alld.....lb. .10 - —
bbls., c.l., frt. equald....lb. .09½- —
l.c.l., frt. alld.....lb. .10½- —
kgs., c.l., frt. equald....lb. .10¾- —
l.c.l., frt. alld .....lb. .11¾- —
Magnesia carbonate is quoted frt. alld. to N. J., except to Atlanta, Burlington, Cape May, Cumberland, Glostershire, Ocean, and Salem counties, and to Phila. county, Pa. Frt. equald, to N.Y.C. on all other destinations.
Chloride, anhyd., bbls., dlvd.lb. .12¾- —
flake, bbls., c.l., works.ton.37.00 - —
l.c.l., works .....ton.44.00 -46.00
Fluoride, bbls. .....lb. .20 - .25
Hydroxide, medicinal, bbls., dms., kgs..lb. .29 - .30
Hypophosphite, cns. .....lb. 1.45 - —
Laurate, bbls.....lb. .33 - .35
Oxide (see Magnesia, calcined).
Peroxide, 15%, dms., works..lb. 1.00 - 1.05
Phosphate, tribasic, USP, bbls. lb. .62 - .67
Silicate (see Talc).
Silicofluoride, bbls.....lb. .14 - .16
Stearate, ctns., 2,000 lbs. to c.l. lb. .50 - —
smaller lots.....lb. .51 - .53
Sulphate (see Epsom salt).
Trisilicate, dms., 1,000-lb. contracts..lb. .37 - —
smaller lots.....lb. .42 - —
Magnesite, cal., powd., bgs., c.l., mines, Calif..ton.38.75 - —
dead-burnt, bulk, c.l., Chewelah, Wash..ton.22.00 -32.00
Maleic anhydride, dms., c.l....lb. .25 - —
l.c.l. .....lb. .26 - —
Malva flowers, black, bls.....lb. No stocks
blue, bls.....lb. 1.55 - 1.60
Leaves, bls.....lb. .40 - .41
Manaca root, bls.....lb. .49 - .50
Mandrake root, bls.....lb. .40 - .45
Manganese acetate, dms.....lb. .25½- —
Arsenate, bgs.....lb. .12 - .12¾
Borate, tech., bbls.....lb. .16 - .18
Carbonate, bbls.....lb. .19 - —
Chloride, anhyd., bbls., wks.lb. .14 - .16
Dioxide, African, battery, 84%-87%, bbls., 28-40 tons, works..ton.74.00 - —
smaller lots, works..ton.77.00 -82.00
86-90%, bbls., c.l., works... ton.74.00 - —
smaller lots, works..ton.77.00 -82.00
84-87%, burlap bgs., c.l., works..ton.71.75 - —
l.c.l., works.....ton.74.75 -79.75
paper bgs., c.l., works.ton.70.00 - —
l.c.l., works.....ton.73.00 - —
Glycerophosphate, fb. dms..lb. 4.25 - —
Hydrate, bbls., dlvd.....lb. .26 - —
Iodide, bots.....lb. 5.70 - —
jars .....lb. 5.55 - —
Linoleate, liquid, 4%, dms...lb. .42¾- —
solid, precip., 8.2%, bbls..lb. .44¾- —
Naphthenate, 6% Mn, liquid, dms..lb. .19¾- —
10% Mn, solid, dms.....lb. .29¾- —
Resinate, fused, 3½%, bbls..lb. .09 - .10¾
precip., dms.....lb. .19 - —
Soyate, 8.2% Mn, dms.....lb. .22 - —
Sulphate, anhyd., dms., works. lb. No stocks
feed grade, 77-80%, bgs....lb. .04 - .06
fertilizer grade, 65%, bgs., c.l., dlvd. East..ton.56.00 - —
l.c.l., same basis, or Balto. or Cincinnati... ton.63.00 - —
industrial grade, 80%, bgs.lb. .05 - .06¾
75%, bgs., c.l., dlvd. East. ton.64.50 - —
l.c.l., same basis.....ton.71.50 - —
Tallate, 4% Mn, dms.....lb. .18¾- .14¾
Mangrove bark, E. Africa, 36% tannin, c.l., ex dock, U. S. ports..ton.60.00 -62.00
Manna, flake, large, cs.....lb. 1.50 - 1.60
small, cs. .....lb. No stocks.
Mannitol, com'l, bbls., works.lb. .26 - .40
reagent, cs. or multiples, works..lb. .35 - —
Marjoram, Argentine, bls.....lb. .14 Nom.
Chilean, bls.....lb. .11 - .12½
futures, bls.....lb. .10½- .12
Matico leaves, bls.....lb. .15 - .20½
Menadione, USP, bots., works, gram. .10 - —

Menthol, natural, USP, Brasilian, cns.	lb.	7.70 - 8.00
synthetic, tech., cns.	lb.	No prices.
USP, laevo, cns.	lb.	No prices.
racemic, cns.	lb.	6.10 - 6.20
Menthyl salicylate, tins.	lb.	3.00 - 3.10
Mercurial ointment, USP, mild, 10%, dms.	lb.	.70 - .72
strong, dms.	lb.	1.68 - 1.70
Mercury bichloride (see Corrosive sublimate).		
Bisulphate, dms.	lb.	2.33 - 2.35
Chloride (see Calomel).		
Cyanide, cryst., powd.	lb.	3.54 - 3.59
Iodide, red, NF, dms.	lb.	4.32 - —
yellow, NF, fib. dms.	lb.	4.42 - —
Oxide, red, NF (see Red precipitate).		
yellow, USP, fib. dms.	lb.	2.74 - 2.76
tech. (see Yellow, mercury oxide).		
Mesityl oxide, dms., c.l., divd.	lb.	.11⅛- —
l.c.l., divd.	lb.	.12 - —
tanks, divd.	lb.	.10½- —
Metal leaf, composition, 5½x5½ in.	pkg.	No stocks.
Gold X+, deep, 23, 3⅜x3⅜ in.,	pkg.	No stocks.
Silver, 3⅜x3⅜ in.	pkg.	No stocks.
Metanitroparatoluidin, bbls.	lb.	1.16 - 1.21
Metaphenylenediamine, xgs.	lb.	.72 - —
Metatoleylenediamine, kgs.	lb.	.77 - —
Methanol, natural, Group A, all grades, dms., extra, c.l., E. of Miss R.	gal.	.63 - —
l.c.l., same basis	gal.	.73 - —
tanks, same basis	gal.	.60 - —
Group B, all grades, dms., incl. c.l. frt. alld.	gal.	.67 - —
l.c.l., same basis	gal.	.78 - —
tanks, same basis	gal.	.60 - —

Prices on natural methanol W. of Miss. R., 3c. higher.

synthetic, dms., c.l., Zone 1, frt. alld.	gal.	.31 - —
2, frt. alld. or divd.	gal.	.34 - —
3, frt. alld.	gal.	.39 - —
4, frt. alld.	gal.	.38 - —
l.c.l., Zone 1, frt. alld. or divd.	gal.	.36 - —
2, frt. alld.	gal.	.43 - —
3, divd. S. F. and L. A.	gal.	.41 - —
4 frt. alld. or divd.	gal.	.51½- —
tanks Zone 1, frt. alld.	gal.	.24 - —
2, frt. alld.	gal.	.27 - —
3, frt. alld.	gal.	.29 - —
4, frt. alld.	gal.	.29 - —

Synthetic methanol zones are: Zone 1—Conn., Del., D. C., Ill., Ind., Ia., Ky., Me., Md., Mass., Mich., Minn., Mo., Neb., N. H., N. J., N. Y., N. C., O., Pa., R. I., S. C. Tenn., Vt., Va., W. Va., and Wis. Zone 2—Ala., Ark., Col., Fla., Ga., Kan., La., Miss., N. Mex., N. Dak., Okla., S. Dak., Tex., and Wyo. Zone 3—Los Angeles and San Francisco. Zone 4—Ariz., Calif. (with exception of Los Angeles and San Francisco, Ida., Mont., Nev., Ore., Utah, and Wash. Buyers in zone 4 have the option of buying at the delivered zone 4 price or at the zone 3 price, f.o.b. Los Angeles and San Francisco.

Methyl abietate, non-ret. dms., c.l., divd.	lb.	.16 - —
10 dms.	lb.	.16½- —
1-9 dms.	lb.	.17 - —
hydrogenated, c.l., divd.	lb.	.17¼- —
10 dms., divd.	lb.	.17¾- —
1-9 dms., divd.	lb.	.18¼- —
Acetate, CP, 97-99%, dms., c.l., E. of Miss.	lb.	.10½- .12
W. of Miss.	lb.	.11½- .12
l.c.l., E. of Miss.	lb.	.11 - .14
W. of Miss.	lb.	.12 - .13½
tanks, E. of Miss.	lb.	.09½- —
W. of Miss.	lb.	.10½- —
tech., dms., c.l., E. of Miss.	lb.	.07 - .09
W. of Miss.	lb.	.08 - —
l.c.l., E. of Miss.	lb.	.07½- .11
W. of Miss.	lb.	.08½- .10½
tanks, E. of Miss.	lb.	.06 - —
W. of Miss.	lb.	.07 - —
Acetoacetate, dms., c.l., works, frt. alld.	lb.	.09½- —
Acetone, natural, Group A, dms., extra, c.l., E. of Miss., frt. alld.	gal.	.66 - —
l.c.l., same basis	gal.	.76 - —
tanks, same basis	gal.	.60 - —

Natural methyl acetone prices W. of Miss. R., 3c. per gal. higher.

Group B, dms. incl., c.l., E. Miss., frt. alld.	gal.	.67 - —
l.c.l., same basis	gal.	.78 - —
tanks, same basis	gal.	.60 - —
synthetic, dms., c.l., works, frt. alld. E.	lb.	.49 - —
frt. alld. W.	lb.	.51½- —
l.c.l., works, frt. alld. E.	lb.	.53 - —
frt. alld. W.	lb.	.55½- —
tanks, works, frt. alld. E.	lb.	.42½- —
frt. alld. W.	lb.	.44½- —

Methyl acetone, synth. East territory is all states East of and including Colo., Mont., N. Mex. and Wyo. West territory, all states West of Colo., Mont., N. Mex. and Wyo.

Alcohol (see Methanol).		
Anthranilate, dms.	lb.	1.80 - —
bots., cns.	lb.	2.20 - 2.60
Benzoate, cns.	lb.	.68 - 1.20
Bromide, cns.	lb.	.63 - .65
cyls.	lb.	.55 - .70
Chloride, indust. grade, cyl., works	lb.	.16 - —
tanks, multi-unit, works	lb.	.14¾- —
single-unit, works	lb.	.14 - —
refrigeration grade, indust. consumers, refrigeration machinery mfgrs., cylinders, divd.	lb.	.33 - —
retail refrigeration consumers or service men, cylinders, divd.	lb.	.41 - —
Alcohol (see Methanol).		
Cinnamate, cns.	lb.	2.00 - 3.50
Formate, dms.	lb.	.89 - —
Iodide, bots.	lb.	3.00 - 3.25
Lactate, dms., c.l., divd.	lb.	No stocks.
Oleate, dms., c.l.	lb.	No prices.
Salicylate, dms., 500 lbs.	lb.	.25 - —
25-50 lbs.	lb.	.37 - .38
Methylamyl ketone, cns., dms., works.	lb.	No stocks.
Methylcellulose, special, vis. (4,000 cps.) fib. ctns., 2,000 lbs. or more, frt. alld.	lb.	.60 - —
smaller lots, frt. alld.	lb.	.65 - .70
standard vis. (15-1,500 cps.), fib. ctns., 2,000 lbs. or more, frt. alld.	lb.	.53 - —
smaller lots, frt. alld.	lb.	.58 - .63
Methylcyclohexane, 98-100% dms., works.	lb.	.16 - —
Methylcyclohexanol, 98-100%, dms., works.	lb.	.23 - —
Methylcyclohexanone, 98-100%, dms, wks.	lb.	No stocks
Methylene blue, USP, 100-lb. lots, kgs., frt. equald.	lb.	2.20 - —
50-lb. lots, bgs., same basis.	lb.	2.30 - —
25-lb. lots, kgs., same basis.	lb.	2.35 - —
Chloride, refrig., dms., divd.	lb.	.13 - .13
Methyleneanilin, lbs., ton lots, min. frt. alld.	lb.	.36 - —
smaller lots, same basis	lb.	.37 - —
Methylethyl ketone, dms., divd.	lb.	.0960- .1000
l.c.l., divd.	lb.	.1010- .1050
tanks, divd.	lb.	.0900- —
Methylhexyl ketone, dms., tech., works.	lb.	.60 - —
Methylisobutyl carbinol (see Carbinol, methylisobutyl).		
Methylisobutyl ketone, dms., c.l., divd.	lb.	.12½- —
l.c.l., divd.	lb.	.13 - —
tanks, divd.	lb.	.11½- —
Methylnaphthyl ketone, cns.	lb.	3.00 - 4.00
Methylpentanediol, dms., divd., works.	lb.	.21½- —
l.c.l., divd.	lb.	.22 - —
1 and 5-gal. cont., Newark	lb.	.27 - .29
tanks, divd.	lb.	.20 - —
Mica, dry-grd., paint, plastic, 100 mesh, bgs., c.l., works.	ton.	47.50 - —
l.c.l., works	ton.	51.00 - —
roofing, 20 to 80 mesh, works.	ton.	50.00 -60.00
graphite, bulk. Pa.. mines.	ton.	80.00 - —
wet-grd., biotite, bgs., c.l., works, frt. alld. E.	lb.	.05¼- —
l.c.l., ex whse., or frt. alld.	lb.	.05¾- —
extra fine, bgs., c.l., works, frt. alld. E.	lb.	.05 - —
l.c.l., ex whse. or frt. alld. E.	lb.	.05½- —
paint or lacq., bgs., c.l., works, frt. alld. E.	lb.	.06½- —
l.c.l., ex whse. or frt. alld. E.	lb.	.07 - —
rubber, bgs., c.l., works, frt. alld. E.	lb.	.06¼- —
l.c.l., ex whse. or frt. alld. E.	lb.	.06¾- —
Mica, wet-grd., wallpaper, bgs., c.l., works, frt. alld. E.	lb.	.06½- —
l.c.l., ex whse. or frt. alld. E.	lb.	.07 - —
white, extra fine, bgs., c.l., works, frt. alld. E.	lb.	.06¾- —
l.c.l., ex whse. or frt. alld. E.	lb.	.07¼- —

Mica, wet-grd., W. of Miss. R., ¼c. higher; W. of Rockies, ¾c. higher.

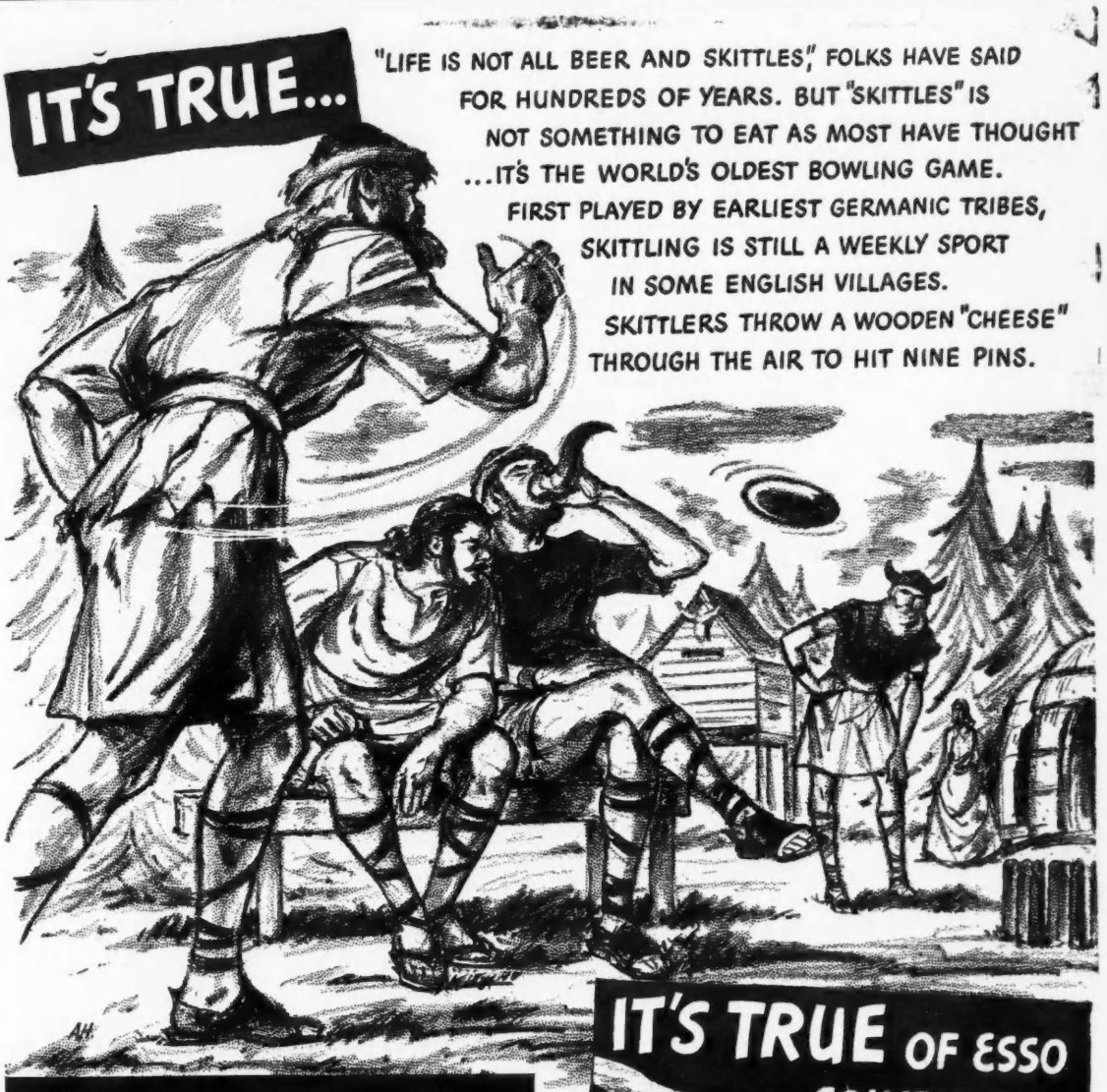
Milk powder, skimmed, roller, bulk, c.l.	lb.	.15¼- .17¼
spray, bulk, c.l.	lb.	.15¾- .17¼
whole, roller, bbls., c.l.	lb.	.40 - .41
spray, bbls., c.l.	lb.	.41 - .42
Milk sugar, bbls., c.l., works.	lb.	.26 - —
l.c.l., works	lb.	.26¾- .27¼

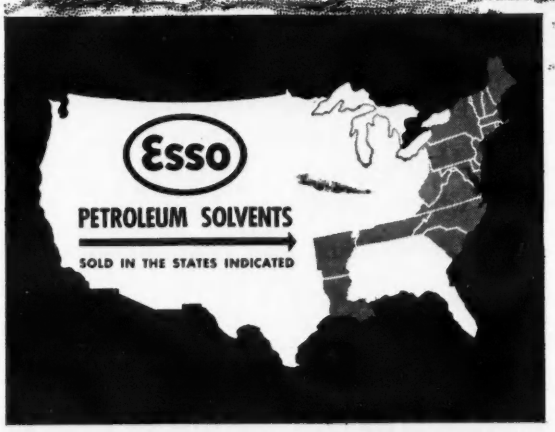
Mineral spirits (see Petroleum, mineral spirits).
Molasses, blackstrap, tanks, works,

Area 1.	gal.	.19 - —
Area 2.	gal.	.18½- —
Area 3.	ton.	26.00 - —
Area 4.	ton.	29.00 - —
Area 5.	ton.	34.60 - —

Area 1, Fla., Ga., La., Tex.; Area 2, Mass., Md., N. J., N. Y.; Area 3, Calif.; Area 4, Colo., Idaho, Kan., Mont., Neb. (excepting Grand Island), S. D., Utah, Ore., Wash., Wyo.; Area 5, Ia., Md., Mich., Minn., Grand Island, Neb., Ohio, Wis.

Molybdate orange (see Orange, molybdate).		
Molybdenum metal, kgs., 90%, powd.	lb.	2.60 - 3.00
Trioxide, pure, kgs., works, basis Mo. content.	lb.	.95 - —
technical, kgs., works, basis Mo. content.	lb.	.80 - —
Monoamylamine, dms., c.l., works, basis 100%	lb.	.61 - —
l.c.l., works, basis 100%	lb.	.64 - —
Monochlorobenzene, dms., c.l., works, frt. equalized with comp. points.	lb.	.06 - .06¼
l.c.l., works.	lb.	.06½- .07½
tanks, works, frt. equalized with comp. points.	lb.	.05½- —
smaller containers, works.	lb.	.09 - .10
Monoethanolamine, dms., c.l., frt. alld. E.	lb.	.24 - —
l.c.l., same basis	lb.	.25 - —
tanks, same basis	lb.	.23 - —
Monoethylamine, dms., c.l., wks., basis 100%	lb.	.17 - —
l.c.l., works, basis 100%	lb.	.18 - —
tanks, 100% basis, works.	lb.	.15 - —
Monomethylamine, anhydrous, cyl., works, frt. alld. E. of Miss. 100% basis.	lb.	.32½- —
solution, dms., works, frt. alld. E. of Miss., 100% basis.	lb.	.37 - .43½
tanks, same basis	lb.	.32 - —
Monomethylpara-aminophenol sulphate, dms.	lb.	2.40 - 2.90
Monosodium phosphate (see Soda phosphate, monobasic).		
Morphine, bots., 5 ozs.	oz.	11.10 - —
cns., 25 ozs.	oz.	10.90 - —
Acetate, bots., 5 ozs.	oz.	9.00 - —
cns., 25 ozs.	oz.	8.80 - —
Hydrobromine, 5 ozs.	oz.	8.95 - —
cns., 25 ozs.	oz.	8.70 - —
Hydrochloride, bots., 5 ozs.	oz.	9.00 - —
cns., 25 ozs.	oz.	8.75 - —
Sulphate, bots., 5 ozs.	oz.	9.00 - —
cns., 25 ozs.	oz.	8.75 - —
Morpholine, dms., l.c.l., works,	lb.	.67 - —
smaller containers, works.	lb.	.75 - —
Mullein leaves, cns.	lb.	.12 - .18


IT'S TRUE...
"LIFE IS NOT ALL BEER AND SKITTLES," FOLKS HAVE SAID FOR HUNDREDS OF YEARS. BUT "SKITTLES" IS NOT SOMETHING TO EAT AS MOST HAVE THOUGHT ...IT'S THE WORLD'S OLDEST BOWLING GAME. FIRST PLAYED BY EARLIEST GERMANIC TRIBES, SKITTLING IS STILL A WEEKLY SPORT IN SOME ENGLISH VILLAGES. SKITTLERS THROW A WOODEN "CHEESE" THROUGH THE AIR TO HIT NINE PINS.



STANDARD OIL COMPANY OF NEW JERSEY
Elizabeth, N. J.—Baltimore, Md.—Richmond, Va.—Charleston, W. Va. Charlotte, N. C.—Columbia, S. C.—New Orleans, La.—Little Rock, Ark. Memphis, Tenn.
STANDARD OIL COMPANY OF PENNSYLVANIA
Philadelphia, Pa.
COLONIAL BEACON OIL COMPANY
Boston, Mass.—New York, N. Y.

DURING THE LAST YEAR, TOTAL ESSO PETROLEUM SOLVENTS SALES WERE ENOUGH TO FULLY LOAD A TANK CAR TRAIN 71½ MILES LONG!

Hundreds of industries look to Esso Marketers for constant uniformity and suitability of solvents ... and for friendly, dependable advice. Esso welcomes opportunities to assist with industrial solvents problems.

Lecithin, edible, dms., c.l.	lb.	.36	—
l.c.l.	lb.	.38½	.55½
tech., dms., c.l.	lb.	.36	—
l.c.l.	lb.	.38½	.55½
Lemon peel, bls.	lb.	.35	.40
Licorice extract, mass, cns.	lb.	.40	.42
powd., bbls.	lb.	.60	.63
Root, natural, bls.	lb.	.12	.14
powd., bbls.	lb.	.18	.20
5-lb. bundles, cs.	lb.	.65	.66
Lignin extract, tanning grade, bgs., c.l., works.	lb.	.04¾	—
Lime, agricultural, bulk, works.	tons	9.00	9.50
Chemical (quicklime), lump, pebble, Adams, Mass.	ton.	9.00	—
Annville, Pa.	ton.	8.50	—
Bellefonte, Pa.	ton.	8.50	—
Berkeley, W. Va.	ton.	8.50	—
Buffalo, N. Y.	ton.	10.25	—
Carey, Ohio	ton.	7.00	—
Cedar Hollow, Pa.	ton.	9.00	—
Lime, chemical (quicklime), lump, pebble, Crab Orchard, Tenn.	ton.	7.90	—
Eagle Mountain, Va.	ton.	8.50	—
Farnams, Mass.	ton.	9.00	—
Gibsonburg, Ohio	ton.	7.50	—
Hannibal, Mo.	ton.	7.50	—
Keystone, Ala.	ton.	7.90	—
Knoxville, Tenn.	ton.	7.90	—
Limedale, Ark.	ton.	8.00	—
Longview, Ala.	ton.	7.90	—
Manistique, Mich.	ton.	8.00	—
Marblehead, Ohio.	ton.	8.50	—
Martinsburg, W. Va.	ton.	8.50	—
Menominee, Mich.	ton.	8.00	—
Mitchell, Ind.	ton.	7.50	—
Nawala, Ala.	ton.	7.90	—
Rippleмead, Va.	ton.	8.50	—
Riverton, Va.	ton.	8.50	—
Rockland, Maine	ton.	8.00	—
Scioto, Ohio	ton.	6.50	—
Sherwood, Texas	ton.	7.90	—
Sherwood, Wisc.	ton.	8.50	—
Lime, chemical (quicklime), lump, pebble, Springfield, Mo.	ton.	8.00	—
Woodville, Ohio	ton.	8.50	—
York, Pa.	ton.	8.50	—
Hydrated, paper bgs., Adams, Mass.	ton.	10.00	—
Annville, Pa.	ton.	10.00	—
Bellefonte, Pa.	ton.	10.00	—
Berkeley, W. Va.	ton.	10.00	—
Buffalo, N. Y.	ton.	10.50	—
Carey, Ohio	ton.	8.50	—
Cedar Hollow, Pa.	ton.	10.00	—
Crab Orchard, Tenn.	ton.	10.65	—
Eagle Mountain, Va.	ton.	10.00	—
Farnams, Mass.	ton.	10.00	—
Gibsonburg, Ohio	ton.	9.50	—
Hannibal, Mo.	ton.	9.50	—
Keystone, Ala.	ton.	11.65	—
Knoxville, Tenn.	ton.	10.65	—
LeRoy, Minn.	ton.	10.00	—
Limedale, Ark.	ton.	10.00	—
Longview, Ala.	ton.	11.65	—
Manistique, Mich.	ton.	9.50	—
Marblehead, Ohio.	ton.	10.50	—
Martinsburg, W. Va.	ton.	8.50	—
Mitchell, Ind.	ton.	10.00	—
Newala, Ala.	ton.	11.65	—
Petoskey, Mich.	ton.	10.00	—
Port Island, Mich.	ton.	9.00	—
Rapid City, S. Dak.	ton.	12.00	—
Ripplemead, Va.	ton.	10.00	—
Rockland, Maine	ton.	9.00	—
Scioto, Ohio	ton.	8.00	—
Sherwood, Tenn.	ton.	11.65	—
Sherwood, Wisc.	ton.	10.00	—
Springfield, Mo.	ton.	9.00	—
Woodville, Ohio	ton.	8.50	—
York, Pa.	ton.	10.00	—
Spray, Adams, Mass., paper bgs.	ton.	10.00	—
Annville, Pa.	ton.	10.00	—
Bellefonte, Pa.	ton.	10.00	—
Carey, Ohio	ton.	11.00	—
Farnams, Mass.	ton.	9.50	—
Lime, spray, Gibsonburg, Ohio.	ton.	10.00	—
Marblehead, Ohio.	ton.	10.00	—
Rockland, Maine	ton.	10.00	—
Scioto, Ohio	ton.	10.00	—
Woodville, Ohio	ton.	10.00	—
York, Pa.	ton.	10.00	—
Lime salts (see Calcium).			
Lime-ammonia-nitrogen[a] 20.6% N. (see Ammonia nitrate-lime-stone).			
Limestone, ground, bulk, works.	ton.	1.40	—
Linalool	lb.	6.75	7.60
Linalyl acetate, ex bois de rose, bots.	lb.	8.50	—
ex lignaloe wood, bots.	lb.	7.75	8.40
ex petitgrain, bots.	lb.	5.15	6.90
Linden flowers with leaves, bls.	lb.	.40	.42
without leaves, bls.	lb.	.65	.70
Linseed meal, 34%, bulk, mills.	ton.	76.00	80.00
Litharge, com'l, powd., bbls., c.l., dlvd. Ala., Ariz., Colo., Fla., Ga., Idaho, La., Miss., Mont., Nev., N. Mex., Tex., Utah, Wyo. and E. of Cascade Mts. in Ore. and Wash.	lb.	.14½	—
other points	lb.	.14¼	—
l.c.l., 5 tons, dlvd., Ala., Cal., Fla., Ga., La., Miss., Tex., and W. of Cascade Mts. in Ore. and Wash.	lb.	.15	—
Ariz., Idaho, Nev., Utah, and E. of Cascade Mts. in Ore. and Wash.	lb.	.15½	—
Colo., Mont., N. Mex., Wyo.	lb.	.15¼	—
other points	lb.	.15	—
Litharge, com'l powd., bbls., l.c.l., smaller lots, dlvd. Ala., etc.	lb.	.15¼	—
Ariz., etc.	lb.	.16¼	—
Colo., etc.	lb.	.16	—
other points.	lb.	.15¼	—
Lithium bromide, bbls., 100-lb. lots, works, frt. equald.	lb.	1.90	—
Carbonate, NF, bbls., kgs.	lb.	1.15	—
Chloride, jars.	lb.	1.15	1.65
Citrate, bbls., dms., kgs.	lb.	1.30	1.43
Fluoride, bbls.	lb.	1.90	—
Hydroxide, jars.	lb.	1.15	1.25
Lithopone, ordinary, bgs., c.l., (20 tons).	lb.	05¼	—
l.c.l.	lb	05¾	—
bbls., c.l.	lb.	05¾	—
l.c.l.	lb.	06	—
Titanated (high-strength), bgs.	lb.	.07½	—
smaller lots.	lb.	.07½	—
bbls., c.l.	lb.	.07½	—
smaller lots.	lb.	.07¾	—
Lithopone, c.l., dlvd. Pac. Cst., ¼c. higher; l.c.l., ex whse. Pac. Cst. ½c. higher.			
Liverwort leaves, bls.	lb.	.75	.80
Lobelia herb, bls.	lb.	.80	.85
Lobeline sulphate, bots., wks. oz.		25.50	35.00
Logwood extract, crystals, No. 1, bbls., l.c.l.	lb.	.37	—
No. 2, bbls., l.c.l.	lb.	.35	—
liquid, No. 1, bbls., c.l.	lb.	.18	—
No. 2, bbls., l.c.l.	lb.	.17	—
No. 3, bbls., l.c.l.	lb.	.16½	—
No. 4, bbls., l.c.l.	lb.	.16	—
solid, No. 1, bxs., l.c.l.	lb.	.29	—
No. 2, bxs., l.c.l.	lb.	.26	—
No. 4, bxs., l.c.l.	lb.	.23	—
No. 5, bxs., l.c.l.	lb.	.21½	—
No. 6, bxs., l.c.l.	lb.	.39½	.44½
Lovage root, imported bls.	lb.	1.20	1.25
Lupulin, NF, tin.	lb.	10.00	11.00
Lycopodium, USP, cs.	lb.	2.60	3.00

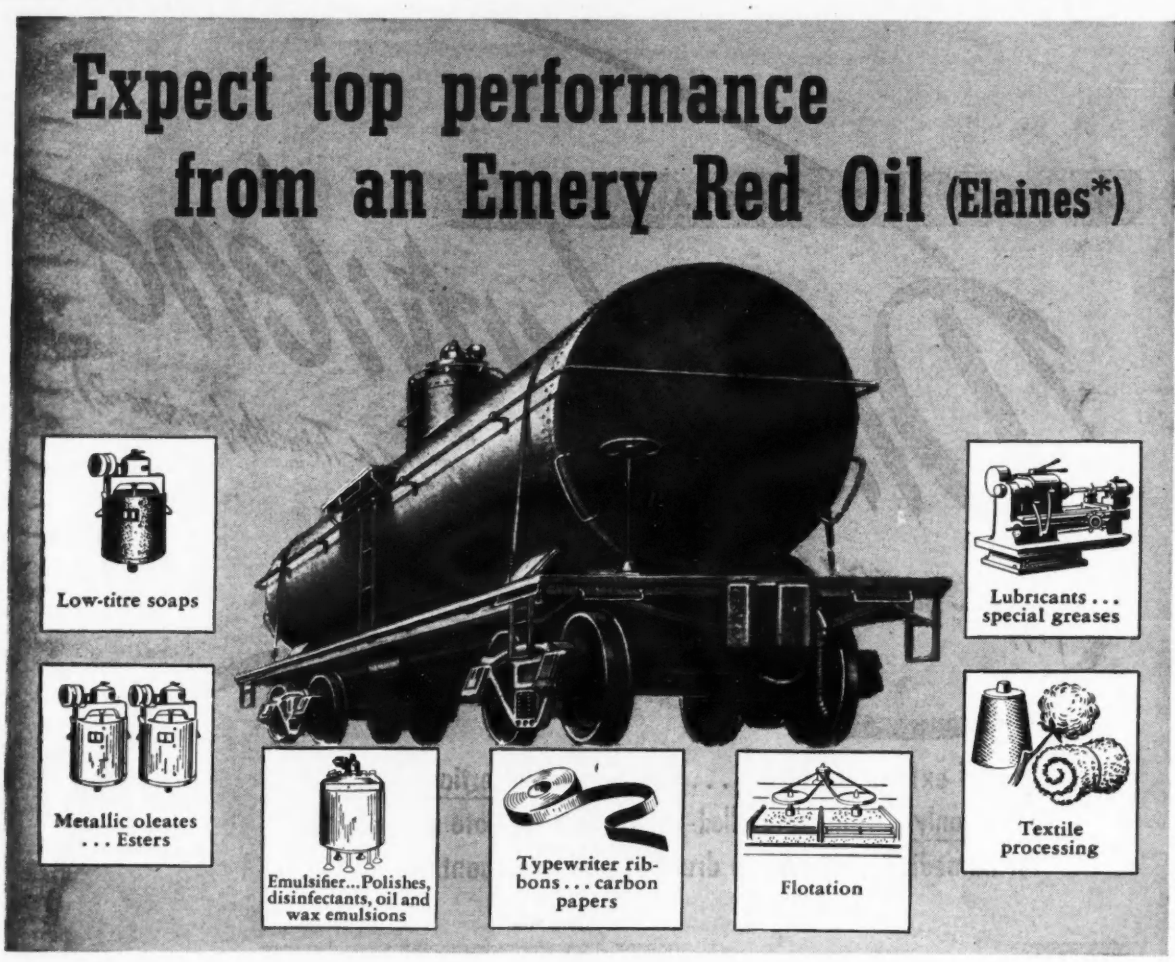
M

Mace, Banda, cs.	lb.	No stocks.	
West Indian, bgs., futures.	lb.	1.70	1.80
Broken, bgs., futures.	lb.	1.40	1.50
Madder, Dutch, bbls.	lb.	.24	.25
Magnesia arsenate, bgs., cans, works.	lb.	.20	.30
Calcined, tech., bbls., works, lb.		.29	—
USP, works	lb.	.31	.36
Magnesia, carbonate, tech., bgs., c.l., frt. equald.	lb.	.07¼	—
l.c.l., frt. alld.	lb.	.08¼	—
bbls., c.l., frt. equald.	lb.	.08¼	—
l.c.l., frt. alld.	lb.	.09¼	—
kgs., c.l., frt. equald.	lb.	.09¾	—
l.c.l., frt. alld.	lb.	.10¾	—
USP, bgs., c.l., frt. equald.	lb.	.09	—
l.c.l., frt. alld.	lb.	.10	—
bbls., c.l., frt. equald.	lb.	.09¼	—
l.c.l., frt. alld.	lb.	.10¼	—
kgs., c.l., frt. equald.	lb.	.10¾	—
l.c.l., frt. alld	lb.	.11¾	—

Magnesia carbonate is quoted frt. alld. to N. J., except to Atlanta, Burlington, Cape May, Cumberland, Gloucestershire, Ocean, and Salem counties, and to Phila. county, Pa. Frt. equald. to N.Y.C. on all other destinations.

Chloride, anhyd., bbls., dlvd.	lb.	.12¾	—
flake, bbls., c.l., works.	ton.	87.00	—
l.c.l., works	ton.	44.00	48.00
Fluoride, bbls.	lb.	.20	.25
Hydroxide, medicinal, bbls., dms., kgs.	lb.	.29	.35
Hypophosphite, cns.	lb.	1.45	—
Laurate, bbls.	lb.	.33	.35
Oxide (see Magnesia, calcined).			
Peroxide, 15%, dms., works.	lb.	1.00	1.05
Phosphate, tribasic, USP, bbls.	lb.	.62	.67
Silicate (see Talc).			
Silicofluoride, bbls.	lb.	.14	.16
Stearate, ctns., 2,000 lbs. to c.l.	lb.	.50	—
smaller lots.	lb.	.51	.52
Sulphate (see Epsom salt).			
Trisilicate, dms., 1,000-lb. contracts.	lb.	.37	—
smaller lots.	lb.	.42	—
Magnesite, cal., powd., bgs., c.l., mines, Calif.	ton.	38.75	—
dead-burnt, bulk, c.l., Chewelah, Wash.	ton.	22.00	32.00
Malaic anhydride, dms., c.l.	lb.	.25	—
l.c.l.	lb.	.26	—
Malva flowers, black, bls.	lb.	No stocks	
blue, bls.	lb.	1.55	1.60
Leaves, bls.	lb.	.40	.41
Manaca root, bls.	lb.	.49	.50
Mandrake root, bls.	lb.	.40	.45
Manganese acetate, dms.	lb.	.25½	—
Arsenate, bgs.	lb.	.12	.13¼
Borate, tech., bbls.	lb.	.16	.18
Carbonate, bbls.	lb.	.19	—
Chloride, anhyd., bbls., wks.	lb.	.14	.16
Dioxide, African, battery, 84%-87%, bbls., 28-40 tons, works.	ton.	74.00	—
smaller lots, works.	ton.	77.00	82.00
85-90%, bbls., c.l., works.	ton.	74.00	—
smaller lots, works.	ton.	77.00	82.00
84-87%, burlap bgs., c.l., works.	ton.	71.75	—
l.c.l., works.	ton.	74.75	79.75
paper bgs., c.l., works.	ton.	70.00	—
l.c.l., works.	ton.	73.00	—
Glycerophosphate, fib. dms.	lb.	4.25	—
Hydrate, bbls., dlvd.	lb.	.26	—
Iodide, bots.	lb.	5.70	—
jars	lb.	5.85	—
Linoleate, liquid, 4%, dms.	lb.	.42½	—
solid, precip., 8.2%, bbls.	lb.	.44½	—
Naphthenate, 9% Mn, liquid, dms.	lb.	.19¼	—
10% Mn, solid, dms.	lb.	.29¼	—
Resinate, fused, 3½%, bbls.	lb.	.09	.10¼
precip., dms.	lb.	.19	—
Soyate, 3.2% Mn, dms.	lb.	.22	—
Sulphate, anhyd., dms., works.	lb.	No stocks	
feed grade, 77-80%, bgs.	lb.	.04	.06
fertilizer grade, 65%, bgs., c.l., dlvd. East.	ton.	56.00	—
l.c.l., same basis, or Balto. or Cincinnati.	ton.	63.00	—
industrial grade, 80%, bgs.	lb.	.06	.06¾
75%, bgs., c.l., dlvd. East.	ton.	64.50	—
l.c.l., same basis.	ton.	71.50	—
Tallate, 4% Mn, dms.	lb.	.10¼	.11¼
Mangrove bark, E. Africa, 35% tannin, c.l., ex dock, U. S. ports.	ton.	60.00	62.50
Manna, flake, large, cs.	lb.	1.60	1.65
small, cs.	lb.	No stocks.	
Mannitol, com'l, bbls., works.	lb.	.30	.40
reagent, cs. or multiples, works.	lb.	.55	—
Marjoram, Argentine, bls.	lb.	.14	Nom.
Chilean, bls.	lb.	.11	.12½
futures, bls.	lb.	.10¼	.11
Matico leaves, bls.	lb.	.15	.20½
Mesadione, USP, bots., works, gram.		.19	—

Expect top performance from an Emery Red Oil (Elaines*)


Low-titre soaps
Metallic oleates . . . Esters
Emulsifier...Polishes, disinfectants, oil and wax emulsions
Typewriter ribbons . . . carbon papers
Flotation
Textile processing
Lubricants . . . special greases

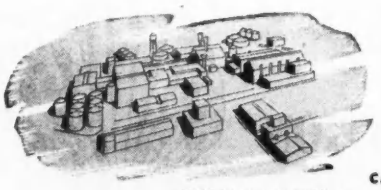
Oleic acid (Red Oil) is a versatile product fitted for important uses in many fields . . . uses for which there is no adequate substitute. In every case it is important to define the job to be done before selecting the red oil with specifications to fit. For example, color may not always be important but color stability frequently is. Lowest titre may be essential; on the other hand, regular titres may suffice. No matter, specifications are flexible enough to provide grades for every use.

To advise on such problems is the function of the Sales Service and Development Departments of Emery. They are ready to help you.

Emery Red Oils provide:

Wider range of characteristics
Standard grades for specific uses
Uniformity in specifications

*Elaine is the trade mark for all Emery Red Oils (Oleic Acids)



EMERY INDUSTRIES, INC.

LIQUID FATTY ACIDS

CAREW TOWER • CINCINNATI 2, OHIO

3002 Woolworth Building, NEW YORK 7, N. Y. · 187 Perry Street, LOWELL, MASSACHUSETTS · 401 N. Broad Street, PHILADELPHIA 8, PA.

STEARIC ACID • OLEIC ACID • ANIMAL AND VEGETABLE FATTY ACIDS • TWITCHELL PRODUCTS • PLASTICIZERS

Menthol, natural, USP, Brazilian, cns.	lb.	7.70 - 8.00
synthetic, tech., cns.	lb.	No prices.
USP, laevo, cns.	lb.	No prices.
racemic, cns.	lb.	6.10 - 6.20
Menthyl salicylate, tins.	lb.	3.00 - 3.10
Mercurial ointment, USP, mild, 10%, dms.	lb.	.70 - .72
strong, dms.	lb.	1.68 - 1.70
Mercury bichloride (see Corrosive sublimate).		
Bisulphate, dms.	lb.	2.33 - 2.35
Chloride (see Calomel).		
Cyanide, cryst., powd.	lb.	3.54 - 3.59
Iodide, red, NF, dms.	lb.	4.32 - —
yellow, NF, fib. dms.	lb.	4.42 - —
Oxide, red, NF (see Red precipitate).		
yellow, USP, fib. dms.	lb.	2.74 - 2.76
tech. (see Yellow, mercury oxide).		
Mesityl oxide, dms., c.l., dlvd.	lb.	.11½- —
l.c.l., dlvd.	lb.	.12 - —
tanks, dlvd.	lb.	.10½- —
Metal leaf, composition, 5½x5½ in.	pkg.	No stocks.
Gold X+, deep, 23, 3⅜x3⅜ in., pkg.		No stocks.
Silver, 3⅜x3⅜ in.	pkg.	No stocks.
Metanitroparatoluidin, bbls.	lb.	1.16 - 1.21
Metaphenylenediamine, kgs.	lb.	.72 - —
Metatolylenediamine, kgs.	lb.	.77 - —
Methanol, natural, Group A, all grades, dms., extra, c.l., E. of Miss R.	gal.	.62 - —
l.c.l., same basis	gal.	.73 - —
tanks, same basis	gal.	.60 - —
Group B, all grades, dms., incl. c.l. frt. alld.	gal.	.67 - —
l.c.l., same basis	gal.	.78 - —
tanks, same basis	gal.	.60 - —
Prices on natural methanol W. of Miss. R., 3c. higher.		
synthetic, dms., c.l., Zone 1, frt. alld.	gal.	.31 - —
2, frt. alld. or dlvd.	gal.	.34 - —
3, frt. alld.	gal.	.36 - —
4, frt. alld.	gal.	.38 - —
l.c.l., Zone 1, frt. alld. or dlvd.	gal.	.36 - —
2, frt. alld.	gal.	.43 - —
3, dlvd. S. F. and L. A.	gal.	.41 - —
4 frt. alld. or dlvd.	gal.	.51½- —
tanks Zone 1, frt. alld.	gal.	.24 - —
2, frt. alld.	gal.	.27 - —
3, frt. alld.	gal.	.29 - —
4, frt. alld.	gal.	.29 - —

Synthetic methanol zones are: Zone 1—Conn., Del., D. C., Ill., Ind., Ia., Ky., Me., Md., Mass., Mich., Minn., Mo., Neb., N. H., N. J., N. Y., N. C., O., Pa., R. I., S. C. Tenn., Vt., Va., W. Va., and Wis. Zone 2—Ala., Ark., Col., Fla., Ga., Kan., La., Miss., N. Mex., N. Dak., Okla., S. Dak., Tex., and Wyo. Zone 3—Los Angeles and San Francisco. Zone 4—Ariz., Calif. (with exception of Los Angeles and San Francisco, Ida., Mont., Nev., Ore., Utah, and Wash. Buyers in zone 4 have the option of buying at the delivered zone 4 price or at the zone 3 price, f.o.b. Los Angeles and San Francisco.

Methyl abietate, non-ret. dms., c.l., dlvd.	lb.	.16 - —
10 dms.	lb.	.16½- —
1-9 dms.	lb.	.17 - —
hydrogenated, c.l., dlvd.	lb.	.17¼- —
10 dms., dlvd.	lb.	.17¾- —
1-9 dms., dlvd.	lb.	.18¼- —
Acetate, CP, 97-99%, dms., c.l., E. of Miss.	lb.	.10½- .12
W. of Miss.	lb.	.11½- .12
l.c.l., E. of Miss.	lb.	.11 - .14
W. of Miss.	lb.	.12 - .13½
tanks, E. of Miss.	lb.	.09½- —
W. of Miss.	lb.	.10½- —
tech., dms., c.l., E. of Miss.	lb.	.07 - .09
W. of Miss.	lb.	.08 - —
l.c.l., E. of Miss.	lb.	.07¼- .11
W. of Miss.	lb.	.08½- .10½
tanks, E. of Miss.	lb.	.06 - —
W. of Miss.	lb.	.07 - —
Acetoacetate, dms., c.l., works, frt. alld.	lb.	.09½- —
Acetone, natural, Group A, dms., extra, c.l., E. of Miss., frt. alld.	gal.	.66 - —
l.c.l., same basis	gal.	.76 - —
tanks, same basis	gal.	.60 - —
Natural methyl acetone prices W. of Miss. R., 3c. per gal. higher.		
Group B, dms. incl., c.l., E. Miss., frt. alld.	gal.	.67 - —
l.c.l., same basis	gal.	.78 - —
tanks, same basis	gal.	.60 - —
synthetic, dms., c.l., works, frt. alld. E.	lb.	.49 - —
frt. alld. W.	lb.	.51¼- —
l.c.l., works, frt. alld. E.	lb.	.53 - —
frt. alld. W.	lb.	.55½- —
tanks, works, frt. alld. E.	lb.	.42½- —
frt. alld. W.	lb.	.44½- —

Methyl acetone, synth. East territory is all states East of and including Colo., Mont., N. Mex. and Wyo. West territory, all states West of Colo., Mont., N. Mex. and Wyo.

Alcohol (see Methanol).		
Anthranilate, dms.	lb.	1.80 - —
bots., cns.	lb.	2.20 - 2.60
Benzoate, cns.	lb.	.46 - 1.20
Bromide, cns.	lb.	.62 - .65
cyls.	lb.	.55 - .70
Chloride, indust. grade, cyl., works.	lb.	.16 - —
tanks, multi-unit, works.	lb.	.14¾- —
single-unit, works	lb.	.14 - —
refrigeration grade, indust. consumers, refrigeration machinery mfgrs., cylinders, dlvd.	lb.	.33 - —
retail refrigeration consumers or service men, cylinders, dlvd.	lb.	.41 - —
Alcohol (see Methanol).		
Cinnamate, cns.	lb.	2.00 - 3.50
Formate, dms.	lb.	.80 - —
Iodide, bots.	lb.	3.00 - 3.25
Lactate, dms., c.l., dlvd.	lb.	No stocks.
Oleate, dms., c.l.	lb.	No prices.
Salicylate, dms., 500 lbs.	lb.	.35 - —
25-50 lbs.	lb.	.37 - .38
Methylamyl ketone, cns., dms., works.	lb.	No stocks.
Methylcellulose, special, vis. (4,000 cps.) fib. ctns., 2,000 lbs. or more, frt. alld.	lb.	.60 - —
smaller lots, frt. alld.	lb.	.65 - .70
standard vis. (15-1,500 cps.), fib. ctns., 2,000 lbs. or more, frt. alld.	lb.	.53 - —
smaller lots, frt. alld.	lb.	.58 - .63
Methylcyclohexane, 98-100% dms., works.	lb.	.16 - —
Methylcyclohexanol, 98-100%, dms., works.	lb.	.23 - —
Methylcyclohexanone, 98-100%, dms, wks.	lb.	No stocks
Methylene blue, USP, 100-lb. lots, kgs., frt. equald.	lb.	2.20 - —
50-lb. lots, bgs., same basis.	lb.	2.30 - —
25-lb. lots, kgs., same basis.	lb.	2.35 - —
Chloride, refrig., dms., dlvd. E.	lb.	.13 - .15
Methyleneamilin, libs., ton lots, min. frt. alld.	lb.	.36 - —
smaller lots, same basis	lb.	.37 - —
Methylethyl ketone, dms., dlvd.	lb.	.0960- .1000
l.c.l., dlvd.	lb.	.1010- .1050
tanks, dlvd.	lb.	.0900- —
Methylhexyl ketone, dms., tech., works.	lb.	.60 - —
Methylisobutyl carbinol (see Carbinol, methylisobutyl).		
Methylisobutyl ketone, dms., c.l., dlvd.	lb.	.12½- —
l.c.l., dlvd.	lb.	.13 - —
tanks, dlvd.	lb.	.11½- —
Methylnaphthyl ketone, cns.	lb.	3.00 - 4.00
Methylpentanediol, dms., dlvd., works.	lb.	.21½- —
l.c.l., dlvd.	lb.	.22 - —
1 and 5-gal. cont., Newark	lb.	.27 - .29
tanks, dlvd.	lb.	.20 - —
Mica, dry-grd., paint, plastic, 100 mesh, bgs., c.l., works.	ton	47.50 - —
l.c.l., works	ton	51.00 - —
roofing, 20 to 80 mesh, works.	ton	50.00 -60.00
graphite, bulk. Pa.. mines.	ton	80.00 - —
wet-grd., biotite, bgs., c.l., works, frt. alld. E.	lb.	.05¼- —
l.c.l., ex whse., or frt. alld. E.	lb.	.05¾- —
extra fine, bgs., c.l., works, frt. alld. E.	lb.	.05 - —
l.c.l., ex whse. or frt. alld. E.	lb.	.05½- —
paint or lacq., bgs., c.l., works, frt. alld. E.	lb.	.06½- —
l.c.l., ex whse. or frt. alld. E.	lb.	.07 - —
rubber, bgs., c.l., works, frt. alld. E.	lb.	.06¼- —
l.c.l., ex whse. or frt. alld. E.	lb.	.06¾- —
Mica, wet-grd., wallpaper, bgs., c.l., works, frt. alld. E.	lb.	.06½- —
l.c.l., ex whse. or frt. alld. E.	lb.	.07 - —
white, extra fine, bgs., c.l., works, frt. alld. E.	lb.	.06¾- —
l.c.l., ex whse. or frt. alld. E.	lb.	.07¼- —

Mica, wet-grd., W. of Miss. R., ½c. higher; W. of Rockies, ¾c. higher.

Milk powder, skimmed, roller, bulk, c.l.	lb.	.15¼- .17¼
spray, bulk, c.l.	lb.	.15¾- .17¾
whole, roller, bbls., c.l.	lb.	.40 - .41
spray, bbls., c.l.	lb.	.41 - .42
Milk sugar, bbls., c.l., works.	lb.	.26 - —
l.c.l., works	lb.	.26¾- .27¼

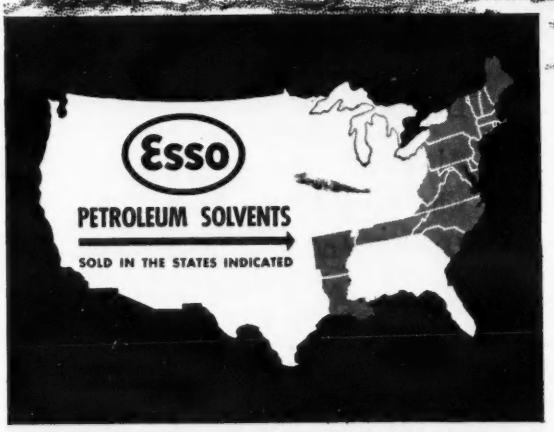
Mineral spirits (see Petroleum, mineral spirits).
Molasses, blackstrap, tanks, works,

Area 1.	gal.	.19 - —
Area 2.	gal.	.18½- —
Area 3.	ton	26.00 - —
Area 4.	ton	29.00 - —
Area 5.	ton	34.60 - —

Area 1, Fla., Ga., La., Tex.; Area 2, Mass., Md., N. J., N. Y.; Area 3, Calif.; Area 4, Colo., Idaho, Kan., Mont., Neb. (excepting Grand Island), S. D., Utah, Ore., Wash., Wyo.; Area 5, Ia., Md., Mich., Minn., Grand Island, Neb., Ohio, Wis.

Molybdate orange (see Orange, molybdate).		
Molybdenum metal, kgs., 90% powd.	lb.	2.60 - 3.00
Trioxide, pure, kgs., works, basis Mo. content.	lb.	.95 - —
technical, kgs., works, basis Mo. content.	lb.	.80 - —
Monoamylamine, dms., c.l., works, basis 100%	lb.	.61 - —
l.c.l., works, basis 100%	lb.	.64 - —
Monochlorobenzene, dms., c.l., works, frt. equalized with comp. points.	lb.	.06 - .06½
l.c.l., works	lb.	.06½- .07½
tanks, works, frt. equalized with comp. points.	lb.	.05½- —
smaller containers, works.	lb.	.09 - .10
Monoethanolamine, dms., c.l., frt. alld. E.	lb.	.24 - —
l.c.l., same basis	lb.	.25 - —
tanks, same basis	lb.	.23 - —
Monoethylamine, dms., c.l., wks., basis 100%	lb.	.17 - —
l.c.l., works, basis 100%	lb.	.18 - —
tanks, 100% basis, works	lb.	.15 - —
Monomethylamine, anhydrous, cyl., works, frt. alld. E. of Miss. 100% basis.	lb.	.32½- —
solution, dms., works, frt. alld. E. of Miss., 100% basis.	lb.	.37 - .48¼
tanks, same basis	lb.	.32 - —
Monomethylpara-aminophenol sulphate, dms.	lb.	2.40 - 2.90
Monosodium phosphate (see Soda phosphate, monobasic).		
Morphine, bots., 5 ozs.	oz.	11.10 - —
cns., 25 ozs.	oz.	10.90 - —
Acetate, bots., 5 ozs.	oz.	9.00 - —
cns., 25 ozs.	oz.	8.80 - —
Hydrobromine, 5 ozs.	oz.	8.95 - —
cns., 25 ozs.	oz.	8.70 - —
Hydrochloride, bots., 5 ozs.	oz.	9.00 - —
cns., 25 ozs.	oz.	8.75 - —
Sulphate, bots., 5 ozs.	oz.	9.00 - —
cns., 25 ozs.	oz.	8.75 - —
Morpholine, dms., l.c.l., works, lb.	lb.	.67 - —
smaller containers, works	lb.	.75 - —
Mullein leaves, cns.	lb.	.12 - .18

"LIFE IS NOT ALL BEER AND SKITTLES," FOLKS HAVE SAID FOR HUNDREDS OF YEARS. BUT "SKITTLES" IS NOT SOMETHING TO EAT AS MOST HAVE THOUGHT ...IT'S THE WORLD'S OLDEST BOWLING GAME. FIRST PLAYED BY EARLIEST GERMANIC TRIBES, SKITTLING IS STILL A WEEKLY SPORT IN SOME ENGLISH VILLAGES. SKITTLERS THROW A WOODEN "CHEESE" THROUGH THE AIR TO HIT NINE PINS.



STANDARD OIL COMPANY OF NEW JERSEY
Elizabeth, N. J.—Baltimore, Md.—Richmond, Va.—Charleston, W. Va. Charlotte, N. C.—Columbia, S. C.—New Orleans, La.—Little Rock, Ark. Memphis, Tenn.
STANDARD OIL COMPANY OF PENNSYLVANIA
Philadelphia, Pa.
COLONIAL BEACON OIL COMPANY
Boston, Mass.—New York, N. Y.

DURING THE LAST YEAR, TOTAL ESSO PETROLEUM SOLVENTS SALES WERE ENOUGH TO FULLY LOAD A TANK CAR TRAIN 71½ MILES LONG!

Hundreds of industries look to Esso Marketers for constant uniformity and suitability of solvents ... and for friendly, dependable advice. Esso welcomes opportunities to assist with industrial solvents problems.

Musk, nat., Tonquin grains, bots. oz.55.00 -60.00
synthetic, ambrette, cns., 100 lbs. or more..lb. 4.60 -12.00
25 lbs. ..... lb. 4.70 -12.10
5 lbs. ..... lb. 4.85 -12.30
ketone, cns., 100 lbs. or more. lb. 4.15 - 9.25
25 lbs. ..... lb. 4.25 - 9.35
5 lbs. ..... lb. 4.40 - 9.70
xylol, cns. ..... lb. 1.60 - 2.00
25 lbs. ..... lb. 1.70 - 2.60
5 lbs. ..... lb. 1.85 - 2.90
Muskroot, bls. ..... lb. No prices
Mustard seed, Calif., Brown, bgs. lb. .16½- .17
yellow, bgs. ..... lb. .21 Nom.
Danish, yellow, bgs. ..... lb. .19½- .20
Dutch, yellow, bgs. ..... lb. .22½- .23
Mustard seed, Montana, brown, bgs..lb. .16 - .16½
yellow, bgs. ..... lb. .20 - .20½
futures, source ..... lb. .17½- .18
oriental, bgs. ..... lb. .10½- .11
futures, f.o.b. source...lb. .08 - .08½
Washington, yellow, bgs. ..... lb. No prices
Myrobalans, whole, J1, U. S. ports, ex dock..ton.44.00 -45.00
J2, same basis. ..... ton.41.00 -42.00

N

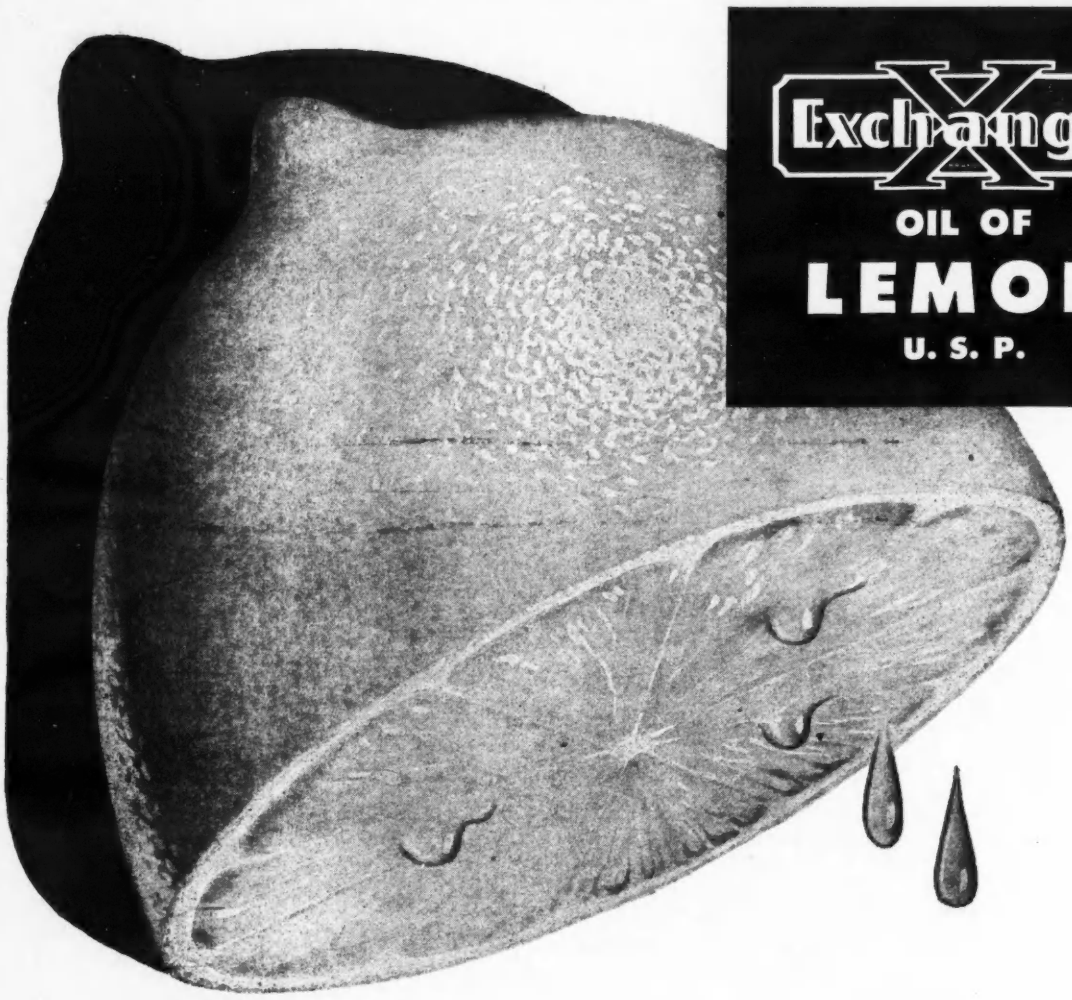
Naphtha painters (see Petroleum naphtha, V. M. & P.).
Solvent (see S).
Naphthalene, dom., crude, 74°, bgs., c.l., frt. equald..lb. — - —
bbls., c.l., same basis..lb. — - —
tanks, same basis. ..... lb. .038 - —
78°, bgs., c.l., same basis. lb. — - —
bbls., c.l., same basis...lb. .0410- —
tanks, same basis. ..... lb. .0375- —
Naphthalene, refined, balls, flakes, bbls., wholesalers and jobbers, c.l., works....lb. .09½- —
50-lb. cs., same basis....lb. .09¾- —
1-lb. pkgs., same basis..lb. .11 - —
Neocinchophen, USP, dms., works. lb. 7.00 - 7.10
Nepheline syenite, glass grade, 24 mesh, bulk, Rochester, N. Y..ton.13.75 - —
pottery grade, 200 mesh, bulk, Rochester, N. Y..ton.17.25 - —
Nepheline syenite in bgs. is $2 per ton higher than bulk.
Narolin, crys., cns. ..... lb. 1.70 - 1.95
Niacin (see Acid, nicotinic).
Nickel, carbonate, bbls. ..... lb. .39 - —
Chloride, bbls. ..... lb. .20 - —
Cyanide, bots., dms. ..... lb. No stocks
Oxide, black, bbls. ..... lb. .35 - .38
Salt, bbls. ..... lb. .14 - .14½
Nicotinamide, USP, dms., works, kilo.10.50 -10.80
Nicotine sulphate, 40%, dms., 50 lbs., to dealers, frt. allowed over 50 lbs..lb. .988 - —
tins, 10 lbs. ..... lb. 1.105 - —
Nikethamide, bots., cbys. ..... lb. 6.50 - 7.50
Nitercake, bulk, works. ..... ton.20.00 -24.00
Nitrobenzene, dbl. dist., dms., c.l. lb. .08 - —
l.c.l. ..... lb. .09 - —
tanks ..... lb. .07 - —
Nitrocellulose, alcohol-soluble, ½ sec., 30-35 cps., bbls., works, dry weight..lb. .26 - —
5-6, 40-60 cps., same basis. lb. .27 - —
Ester-soluble, ¼, ½ sec., 30-35 cps., bbls., works, dry weight..lb. .28 - —
Nitrocellulose, ester-soluble, 5-6, 15-20 cps. and higher, bbls., works, dry weight. lb. .25 - —

Nitrocelluloses:—Denatured alcohol used in manufacture is charged extra. Barrels extra, but returnable.

Nitroethane, dms., works. ..... lb. .25 - —
Nitrogen solut., tanks. ..... ton.108.21 - —
Prices adjusted to ammonia sulphate basis from ports, and anhydrous ammonia basis, Hopewell, Va., bulk, works.
Nitrogenous process tankage, bulk, works..unit-ton. 4.00 - 4.50
Sewage sludge, bulk, works.... unit-ton.3.80+.40- —
Nitromethane, dms., c.l., works. lb. .25 - —
Nitronaphthalene, bots. ..... lb. .24 - .25
Nitropropane 1, dms., works..lb. .25 - —
2, dms., works. ..... lb. .25 - —
Nutgalls, bgs. ..... lb. .44 - .50
Nutmegs, West Indian, bgs..lb. .82 - .83
futures ..... lb. .80 - .81
Banda, bgs., futures. ..... lb. .70 - .71
Nux vomica, bls. ..... lb. .09½- .10
powder, bbls., bxs. ..... lb. .12 - .13

O

Oakbark extract, 25% tannin, bbls., c.l., works..lb. No stocks
Octane, 109° C-140° C, industrial grade, dms., c.l., G. 3..gal. .15½- —
l.c.l., G. 3. ..... gal. .29 - —
10 gals., G. 3. ..... gal. .55 - —
tanks, G. 3. ..... gal. .13 - —
Octanol (see Alcohol, ethylhexyl).
Oil, almond, artificial (see Benzaldehyde).
Bitter, F.P.A., bots. ..... lb. 4.75 - 5.00
USP, bots. ..... lb. 4.90 - —
sweet, ex., dms., cns. ..... lb. 1.00 - 1.10
Oil, angelica root, bots. ..... lb.110.00 -275.00
Seed, bots. ..... lb.115.00 -265.00
Anilin (see A).
Anise, USP, Chinese, dms...lb. 1.00 - 1.50
Russian, cns. ..... lb. 3.50 - 3.75
Apricot kernel, cns. ..... lb. .65 - .85
Avocado, cns., dms. ..... lb. 1.00 - 1.10
Babassu, tanks ..... lb. No prices
Bay, W. I., 50-55%, cns. ..... lb. 1.85 - 2.00
Puerto Rican, 50-55%, cns..lb. 1.43 - 2.00
Bergamot, artif., cns. ..... lb. 2.25 - 5.50
natural, Italian, cns. ..... lb. 4.95 - 6.50
Birch (see Oil, sweet, birch).
Birchtar, crude, cns. ..... lb. 5.00 - 6.00
rectified, cns. ..... lb. No stocks
Bois de rose, Brazil, cns....lb. 4.70 - 5.75
Mexican (see Oil, lignaloe wood).
Bone, dms., works. ..... gal. .65 - .70
Cajeput, tech., dms. ..... lb. 2.70 - 2.90
redistilled, USP IX, cns....lb. 2.85 - 3.20
Calamus, cns. ..... lb.20.00 -30.00
Camphor, white, nat., cns....lb. .75 - 1.25
synthetic, dms. ..... lb. .15 - .35
Cananga, native, cns. ..... lb. 8.00 -14.00
rectified, cns. ..... lb.10.50 -17.00
Capsicum (see Capsicum, oleoresin).
Caraway, NF, cns. ..... lb. 5.50 - 6.75
Cardamom, bots. ..... lb.22.50 -30.00
Cassia, USP, cns. ..... lb. 3.50 - 6.50
Castor, blown, ret. dms., c.l..lb. No prices
l.c.l. ..... lb. No prices
cold-pressed, U.S.P., ret. dms., c.l..lb. .33½- —
l.c.l. ..... lb. .34½- —
tanks ..... lb. .32½- —
dehydrated, bodied, dms., c.l. lb. .40 - —
l.c.l. ..... lb. .40½- —
tanks ..... lb. .39 - —
unbodied, dms., c.l. ..... lb. .38½- —
l.c.l. ..... lb. .39 - —
unbodied, tanks. ..... lb. .37½- —
No. 3, tech., dms., c.l. ..... lb. .33½- .34¾
l.c.l. ..... lb. .34½- .35¾
tanks ..... lb. .32½- .33¾
sulphonated, 50% (48% fat), dms..lb. .18 - .20
75% (62-64% fat), dms....lb. .28 - .30
Cedarleaf, USP, cns., dms..lb. 2.45 - 2.70
Cedarwood, USP, cns. ..... lb. .89 - 1.30
dms. ..... lb. .85 - 1.20
Celeryseed, bots. ..... lb.17.00 -22.50
Chaulmoogra, USP, cns., dms. lb. .56 - —
Chinawood (see Oil, tung).
Cinnamon bark oil, bots. ..... lb.32.00 -60.00
leaf, dms. ..... lb. 1.40 - 1.85
Citronella, Ceylon, cns. ..... lb. 2.25 - 2.75
Java, cns. ..... lb. 4.75 - —
Clove, USP, cns. ..... lb. 1.50 - 1.85
Coconut, Ceylon type, tankcars. lb. .21 - —
tankcars, Pac. Coast. ..... lb. .20¼- —
refined, Cochin type. ..... lb. .25¼- —
deodorized, ret. dms., c.l. lb. .34¼- —
Cod, Newfoundland, dms....gal. No prices
tanks ..... gal. No prices
Codliver, USP, bbls., dms..gal. 2.60 - 3.70
Coriander, bots. ..... lb.17.50 -22.50
Corn, crude, tanks, works..lb. .32 - —
refined, tanks, works. ..... lb. .36 - —
foots, acid, 95%, tanks, dlvd. E..lb. .16 Nom.
raw, 50%, tanks, dlvd. E. lb. .08 Nom.
Cottonseed, crude, tanks, works (see Cottonseed Oil market report).
deodorized, winterized, salad, dms., c.l..lb. .39½ Nom.
l.c.l. ..... lb. .40 Nom.
tankcars ..... lb. .39 - —
foots, acid 95%, tanks, dlvd. E..lb. .16 Nom.
raw, 50%, tanks, dlvd. E. lb. .08 Nom.
Creosote (see C).
Croton, NF, cns. ..... lb. 4.75 - 5.50
Cubeb, cns. ..... lb. 8.00 -15.00
Crude (see Petroleum, crude)
Cumin, bots. ..... lb. 8.50 -22.00
Cypress, bots. ..... lb.12.00 -16.00
Degras (see D).
Dillseed, bots. ..... lb. 6.50 - 7.00
Dillweed, bots. ..... lb. 4.50 - 5.25
Dip (see D).
Erigeron, cns. ..... lb. 2.25 - 2.40
Eucalyptus, USP, rect., 80-90%, cns..lb. 1.18 - 1.45
70-80%, cns. ..... lb. 1.05 - 1.40
Fennel, sweet, cns. ..... lb. 3.75 - 4.55
Fir, Canada, cns. ..... lb. 2.50 - 2.80
Fishliver, dms., less than 40,000 A units per gram.... per million units. .30 - —
for each 1,000 additional A units up to 200,000 grams. per million units. .001 - —
200,000 or more A units..... per million units. .46 - —
Fuel (see Petroleum, fuel oil).
Garlic, pure, bots. ..... oz.15.00 - —
Gaultheria (see Oil, wintergreen).
Geranium, Algerian, cns. ..... lb.15.50 -23.00
Bourbon, cns. ..... lb.14.00 -22.00
Russian, cns. ..... lb. No stocks
Turkish (see Oil, palmarosa).
Ginger, dist., bots. ..... lb.10.00 -14.00
Grapefruit, Florida, cns. ..... lb. 2.20 - 2.45
California, bots., cns. ..... lb. 1.78 - 2.50
Grease, common, No. 1, bbls., c.l..lb. No prices
extra, No. 1, bbls., c.l. ..... lb. No prices
Winter strained, bbls., c.l..lb. No prices
prime, burning, bbls., c.l..lb. No prices
inedible, bbls., c.l. ..... lb. No prices
Guaiacwood, cns. ..... lb. 2.50 - 4.00
Hemlock, cns. ..... lb. 2.35 - 2.75
Herring, crude, tanks, Pac. coast..lb. No prices
Juniper berry, dom., bots....lb. 6.00 -13.50
imported, USP. ..... lb.14.00 -15.00
Juniper tar, USP (see Juniper Tar).
Juniper wood, tech., cns. ..... lb. .65 - 1.00
Lard oil (see Oil, grease).
Laurel, bots. ..... lb. No prices
Lavandin, cns. ..... lb. 3.80 - 5.00
Lavender flower, French, 38%-40-42% ester. ..... lb. 6.00 -16.00
Russian, cns. ..... lb.12.50 - —
Spike, Spanish, pure, cns....lb. 1.85 - 3.10
tech., cns. ..... lb. 1.05 - 2.50
Lemon, USP, Calif., cns. ..... lb. 3.25 - 3.50
Messina, cns. ..... 3.40 - 4.00
Terpeneless, bots. ..... lb.40.00 -50.00
Lemongrass, cns., dms. ..... lb. 2.90 - 3.40
Lignaloe seed, Mexican, cns..lb. No stocks
Wood, Mexican, cns. ..... lb. 4.50 - 5.75
Brazilian (see Bois de Rose).
Lime, distilled, Mexican, cns. lb. 5.00 - 7.20
West Indian, cns. ..... lb. 5.75 - 7.50
expressed, West Indian, cns.lb.13.00 -15.00
Linseed, raw, dms., c.l. ..... lb. .39 - —
l.c.l. ..... lb. .3940- .3980
tankcars ..... lb. .38 - —
tankwagon ..... lb. .3820- —
Boiled linseed oil, .004 higher than raw.
Linseed, replacement, dms., c.l lb. .35 - —
l.c.l. ..... lb. .3540- .3580
tankcars ..... lb. .34 - —
Lubricating, at refinery, ex tax, California, neutral, pale, 200-800 vis., 2¼-4 pour, tanks..gal. .07¼- .11
red, 200-800 vis., 4-6½ pour, plus tanks..gal. .07¼- .11¾



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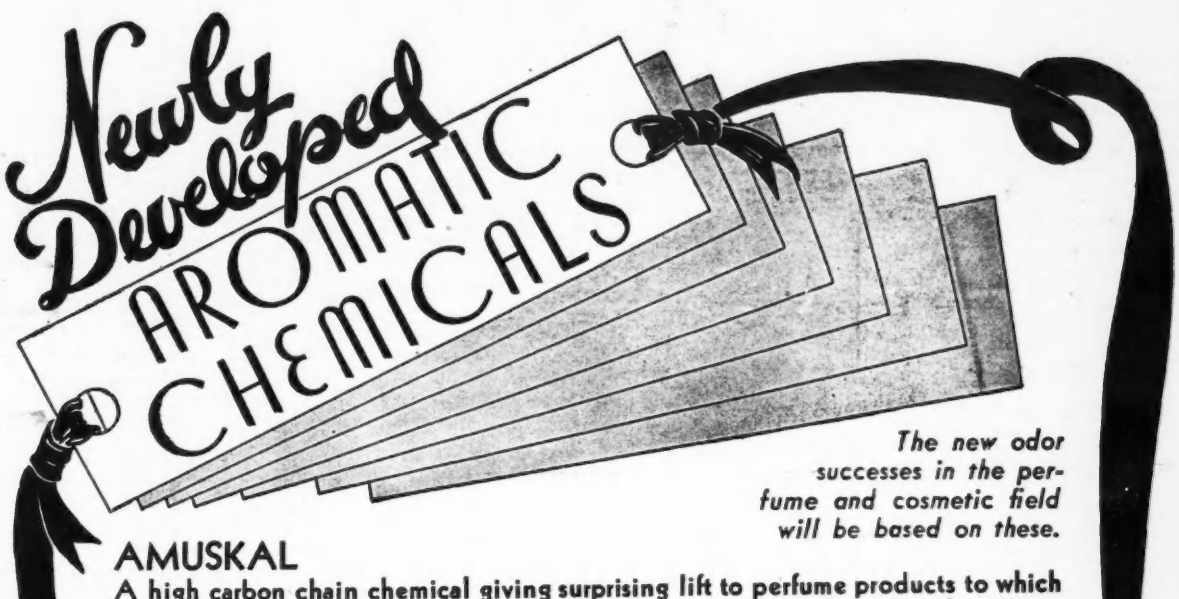
Oil, lubricating, at refinery, ex tax, Group 3, bright stock, 150-160 vis., 0.25 pour, tanks, gal.	.23	-	.25
neutral, 300 vis., No. 3, col., 0.10 pour, tanks, gal.	.18½	-	.19
200-300 vis., No. 3, col., 15-25 pour, tanks, gal.	.16	-	.18
145-155 vis., No. 3, color, 10-35 pour, tanks, gal.	.26	-	.31
cylinder oils, 600-650 flash, tanks, gal.	.17	-	.19
600-650 steam, refd., tanks, gal.	.15½	-	.20
neutral, 70° F., No. 3 color, 150 vis., 25 pour, tanks, gal.	.26	-	.36
200 vis., 25 pour, tanks, gal.	.28	-	.38
Mace, dist., cns., dms., lb.	8.50	-	9.50
Mineral, white (see Oil, white).			
Mandarin, Brazilian, cns., lb.	5.25	-	10.00
Menhaden, crude, tanks, Balto. lb.	.18½	Nom.	
refined, alkali, dms., c.l., lb.	.30½	-	—
kettle-bodied, dms., l.c.l., lb.	.32	-	—
light-pressed, dms., l.c.l., lb.	.29	-	—
tanks, lb.	.28	-	—
Mustard, artif., USP, cns., lb.	1.45	-	1.65
Seed, exp., dms., c.l., lb.	.30	-	—
Neatsfoot, 15°, ret. dms., wks. lb.	.52	-	—
20°, ret. dms., works, lb.	.50	-	—
30°, ret. dms., works, lb.	.49	-	—
Neroli, French, bots., lb.	150.00	-	390.00
Haitian, bots., lb.	180.00	-	200.00
Nutmeg, cns., lb.	8.50	-	9.50
Ocotea cymbarum, dms., lb.	.85	-	1.00
Oiticica, liquid, tankcars, lb.	.34½	-	—
dms., carlots, lb.	.35½	-	—
l.c.l., lb.	.35½	-	—
Oleo, extra, tcs., Chicago, lb.	.30	Nom.	
Olibanum, bots., lb.	5.00	-	6.05
extra fine, lb.	6.25	-	10.50
Olive, denat., dms., gal.	No stocks		
edible, Calif., 3%-1½% f.f.a., dms., extra, works, gal.	No prices		
imported, dms., gal.	7.00	-	7.25
foots, dms., c.l., lb.	No prices		
tankcars, lb.	No prices		
sulphonated, 50% (40% fat), dms., c.l., lb.	No stocks		
l.c.l., lb.	No stocks		
80% (68% fat), dms., c.l. lb.	No stocks		
l.c.l., lb.	No stocks		
85% (68% fat), dms., c.l. lb.	No stocks		
l.c.l., lb.	No stocks		
Orange, sweet, dist., cs., lb.	1.25	-	1.75
expressed, USP, Brazilian, cns., lb.	1.45	-	2.00
Calif., cns., lb.	1.60	-	2.10
Florida, cns., dms., lb.	1.45	-	1.85
Messina, coppers, lb.	4.50	-	4.75
West Indian, cns., lb.	2.25	-	3.75
sesquiterpeneless, bots., lb.	100.00	-	135.00
Origanum, Spanish, cs., lb.	2.40	-	3.25
Palm, Niger, dms., lb.	No prices		
Palmarosa, cns., lb.	8.50	-	9.50
Palmkernel, crude, bulk, c.i.f., N. Y., lb.	No prices		
Paraffin, 300° flash, 100-110 vis., tanks, G.3., gal.	.05¾	-	—
320° flash, 60-70 vis., tanks, G.3., gal.	.05¼	-	—
350° flash, 70-80 @ 100 vis., 0/10 pour, G.3., gal.	.06	-	—
80-85 vis., 0/10 pour, bbls. extra, Ind. ref'y., gal.	.12	-	—
100-110 vis., 0/10 pour, same basis., gal.	.08½	-	—
10/25 pour, same basis., gal.	.08¾	-	—
Patchouli, imported, cns., lb.	48.00	-	98.00
Peanut, crude, tanks, works, lb.	.34	-	—
foots, acid, 95%, tanks, dlvd. E., lb.	.16	Nom.	
raw, 50%, tanks, dlvd., E., lb.	.08	Nom.	
refined, dms., lb.	.39	Nom.	
Pennyroyal, dom., dms., cns., lb.	3.85	-	3.95
import, cns., lb.	4.25	-	5.00
Peppermint, natural, dms., lb.	7.75	-	8.25
redist., USP, dms., lb.	8.30	-	8.75
Perilla, crude, dms., lb.	No stocks		
Petitgrain, Paraguay, cns., lb.	3.25	-	4.00
Pimento, berry, dms., lb.	5.75	-	8.00
Leaf, cns., lb.	2.75	-	5.75
Pine, destructive dist., dms., c.l., extra, wks., South, gal.	.67	-	—
l.c.l., same basis, gal.	.68	-	—
tanks, wks., South, gal.	.61	-	—
steam-dist., dms., dlvd. E., gal.	.80	-	—
Pineneedle, cns., lb.	3.00	-	3.65
Putty, petroleum, heavy, dms. gal.	.18	-	—
tankwagon, gal.	.13½	-	—
light, dms., gal.	.16½	-	—
tankwagon, gal.	.12½	-	—
Rapeseed, dms., c.l., lb.	.32	Nom.	
Red, single dist., ret. dms., lb.	.29¾	-	.30¾
tanks, dlvd., E. of Rockies, lb.	.28½	-	—
double dist., ret. dms., lb.	.32¼	-	.33¼
Rose, natural, coppers, oz.	31.25	-	40.00
Rosemary, Spanish, tech., cns., dms., lb.	1.10	-	1.50
USP, cns., dms., lb.	1.40	-	1.75
Rosin, 1st rectified, dms., gal.	.66	-	—
2d rectified, dms., gal.	.68	-	—
3d rectified, dms., gal.	.72	-	—
Rue, bots., lb.	4.75	-	5.25
Sage, Dalmatian, cns., lb.	5.75	-	6.50
Spanish, cns., lb.	2.25	-	3.50
Sandalwood, NF, Mysore, cns., case lots, lb.	16.00	-	21.00
Sardine, crude, tanks, Pac. coast, lb.	.23½	Nom.	
refined, alkali, dms., l.c.l., lb.	.30½	-	—
kettle-bodied, dms., l.c.l., lb.	.32	-	—
light-pressed, dms., l.c.l., lb.	.29	-	—
tanks, lb.	.28	-	—
Sassafras, artificial, lb.	.80	-	1.10
natural, Brazilian (see Oil, ocotea cymbarum).			
domestic, USP XII, cns., dms., lb.	1.95	-	2.30
Savin, cns., lb.	5.75	-	16.00
Savory, cns., lb.	8.00	-	—
Seal, No. 1, tanks, U.S. ports, lb.	No prices		
Sesame, tanks, lb.	No prices		
Shingle stain, bbls., c.l., works, gal.	.21	85-	—
l.c.l., works, gal.	.25	-	.29
tanks, works, gal.	.15	-	.16
Snakeroot, Canada, cns., lb.	27.00	-	—
Soybean, crude, tankcars, mills, lb.	.30	-	—
refined, alkali, dms., c.l., lb.	.33	83-	—
l.c.l., lb.	.34	20-	—
tankcars, lb.	.32	83-	—
clarified, dms., c.l., lb.	.32	13-	—
l.c.l., lb.	.32	¼-	—
tankcars, lb.	.31	13-	—
winterized, ret. dms., lb.	.34¼	Nom.	
foots, acid, 95%, tanks, dlvd. E., lb.	.16	Nom.	
raw, 50%, tanks, dlvd. E., lb.	.08	Nom.	
Spearmint, dms., lb.	12.25	-	15.00
Sperm, bleached, 38°, dms., lb.	No prices		
natural, 45°, dms., lb.	No prices		
Spruce, cns., dms., lb.	2.35	-	2.75
Sunflower, imported, refined, tanks, lb.	No prices		
semi-refined, tanks, lb.	No prices		
Sweet birch, North, cns., lb.	4.50	-	7.25
South, cns., lb.	2.50	-	3.25

Oil, tall, crude, dms., c.l., works, ton.	No prices		
l.c.l., works, ton.	No prices		
tanks, works, ton.	No prices		
Refined, dms., c.l., works, lb.	.06½	-	.09½
l.c.l., works, lb.	.09	-	.10
tanks, works, lb.	.07½	-	.08½
Tallow, acidless, dms., c.l., Chicago, lb.	.27	-	—
Tansy, cns., lb.	12.00	-	—
Tar, pine, crude, dms., extra, c.l., works, South, gal.	.36½	-	—
l.c.l., works, South, gal.	.38½	-	—
tanks, works, South, gal.	.30½	-	—
rectified, USP, l.c.l. dms. extra, wks., South, gal.	.57	-	—
Tar acid (see T).			
Thyme, red, NF, cns., lb.	2.60	-	3.05
white, cns., lb.	2.65	-	3.75
technical, cns., lb.	.75	-	.90
Tung, dms., c.l., lb.	.39	-	.39½
l.c.l., lb.	.40	-	.40½
tankcars, lb.	.38	-	.38½
Turkey red (see Oil, castor, sulphonated).			
Turpentine, rectified, USP, cns., dms., lb.	.30	-	.55
Vetiver, Bourbon, cns., lb.	34.00	-	42.50
Haitian, lb.	29.50	-	35.00
Whale, ref., natural, dms., lb.	No stocks		
Winter bleached, dms., lb.	No stocks		
Wheat germ, dms., gal.	10.00	-	13.50
White, mineral, tech., f.o.b., N. Y., 50-60 vis., dms., incl., c.l., gal.	.42	-	—
l.c.l., gal.	.44	-	.48
65-75 vis., dms., dms. incl., c.l., gal.	.45	-	—
l.c.l., gal.	.47	-	.52
JSP, 80/90 vis., dms., dms. incl., c.l., gal.	.49	-	—
l.c.l., gal.	.51	-	.56
125/135 vis., dms., dms. incl., c.l., gal.	.61	-	—
l.c.l., gal.	.64	-	.68

Oil, white mineral, USP, 145/155 vis., dms., dms. incl., c.l. gal.	.63	-	—
l.c.l., gal.	.66	-	.70
175/185 vis., dms., dms. incl., c.l., gal.	.66	-	—
l.c.l., gal.	.68	-	.73
200/210 vis., dms., dms. incl., c.l., gal.	.70	-	—
l.c.l., gal.	.73	-	.77
335/345 vis., dms., dms. incl., c.l., gal.	.78	-	—
l.c.l., gal.	.80	-	.85
55, 70 and 85 vis., non-ret. dms., San Francisco, gal.	.45	-	—
smaller lots, same basis, gal.	.47	-	.50
100 vis., non-ret. dms., 65 dms., San Francisco, gal.	.56½	-	—
smaller lots, same basis, gal.	.57½	-	.61½
145 vis., non-ret. dms., 65 dms., San Francisco, gal.	.64	-	—
smaller lots, same basis, gal.	.66	-	.69
180 vis., non-ret. dms., 65 dms., San Francisco, gal.	.69½	-	—
smaller lots, same basis, gal.	.71½	-	.74½
240 vis., non-ret. dms., 65 dms., San Francisco, gal.	.61	-	—
smaller lots, same basis, gal.	.63	-	.66
Wintergreen, natural, North, cns., lb.	5.50	-	17.25
South, cns., lb.	3.65	-	6.00
Synthetic (see Methyl salicylate).			
Wood (see Oil, tung).			
Wormseed, cns., lb.	5.35	-	5.55
Wormwood, cns., lb.	10.00	-	12.25
Ylang-ylang, Bourbon, extra, bots., lb.	15.00	-	24.00
first, bots., lb.	12.50	-	17.00
second, bots., lb.	7.50	-	14.00
third, bots., lb.	5.00	-	9.00

Oleostearin, loose, Chicago, lb.	No prices		
Olivine, aggregate, c.l., mines, ton.	7.00	-	9.50
crushed, 8 mesh, bulk, c.l., works, ton.	10.00	-	—
paper bgs., c.l., works, ton.	12.00	-	—
lumps, paper bgs., c.l., works, ton.	7.00	-	—
Opium, USP, cns., lb.	21.30	-	21.55
gran., lb.	22.70	-	29.95
powd., lb.	22.70	-	29.95
Orange, cadmium lithopone, bbls., frt. alld. E. of Rockies, lb.	.85	-	.86
Chrome, CP, bbls., dlvd. N. of Tenn. and N. C., E. of Miss. R., includ. Davenport, Tenn. and N. C., E. of Minneapolis, Rock Island, St. Louis, St. Paul, contracts, lb.	.24	-	—
Chrome orange prices are ½c. higher, dlvd. Ala., Fla., Ga., La. (Shreveport); 1¼c. Miss., N. C., S. C., Tenn., Dallas, Tex., 1½c.; Ft. Worth, Tex., 1½c.; El Paso, Tex., 2c.; Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph, 1.6c. higher dlvd. Pac. Coast; for Denver, Pueblo, Salt Lake City, Wichita, prices are equalized with Chicago.			
Orange, dinitroaniline toner, lb.	1.15	-	—
Molybdate, bbls., lb.	.37½	-	—
Orthonitroaniiin toner, bbls., kgs., works, lb.	.86	-	1.05
Persian, bbls., lb.	.39	-	.48
Orange mineral, American, bbls., 5 tons, dlvd. Ala., Cal., Fla., Ga., La., Miss., Tex. and W. of Cascade Mts. in Ore. and Wash., lb.	.18½	-	—

Newly Developed AROMATIC CHEMICALS



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AMUSKAL
A high carbon chain chemical giving surprising lift to perfume products to which it is added. It also enhances lasting qualities — very little goes a long way. Economical to use. Write for sample and prices.

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Try in your creams to improve texture.

ALDEHYDE FK
Basis for Lilacs to create richer, stronger Lilac Odor. Add up to 10% Aldehyde FK.

RESEDALIA
A chemical surprisingly true to the odor of Reseda Mignonette.

TUBEROL
Basis for Tuberose odors and perfumes for creams, lotions, etc.

VIOLETTONE
A Ketone basis with Patchouly note for Violet Odors.

ETHYLENE GLYCOL ACETAL OF PHENYL ACETALDEHYDE
Softener and homogenizer for all types of Floral Odors.

These are a few of our recently developed products. Write for complete list.

CYCLAMAL—An aldehyde replacing Hydroxy Citronellal. Five Times stronger. Economical to use.

Aromatics Division
GENERAL DRUG COMPANY
125 Barclay St., New York 7, N. Y.

9 S. CLINTON STREET, CHICAGO 6 — 1019 ELLIOTT ST., W., WINDSOR, ONT.

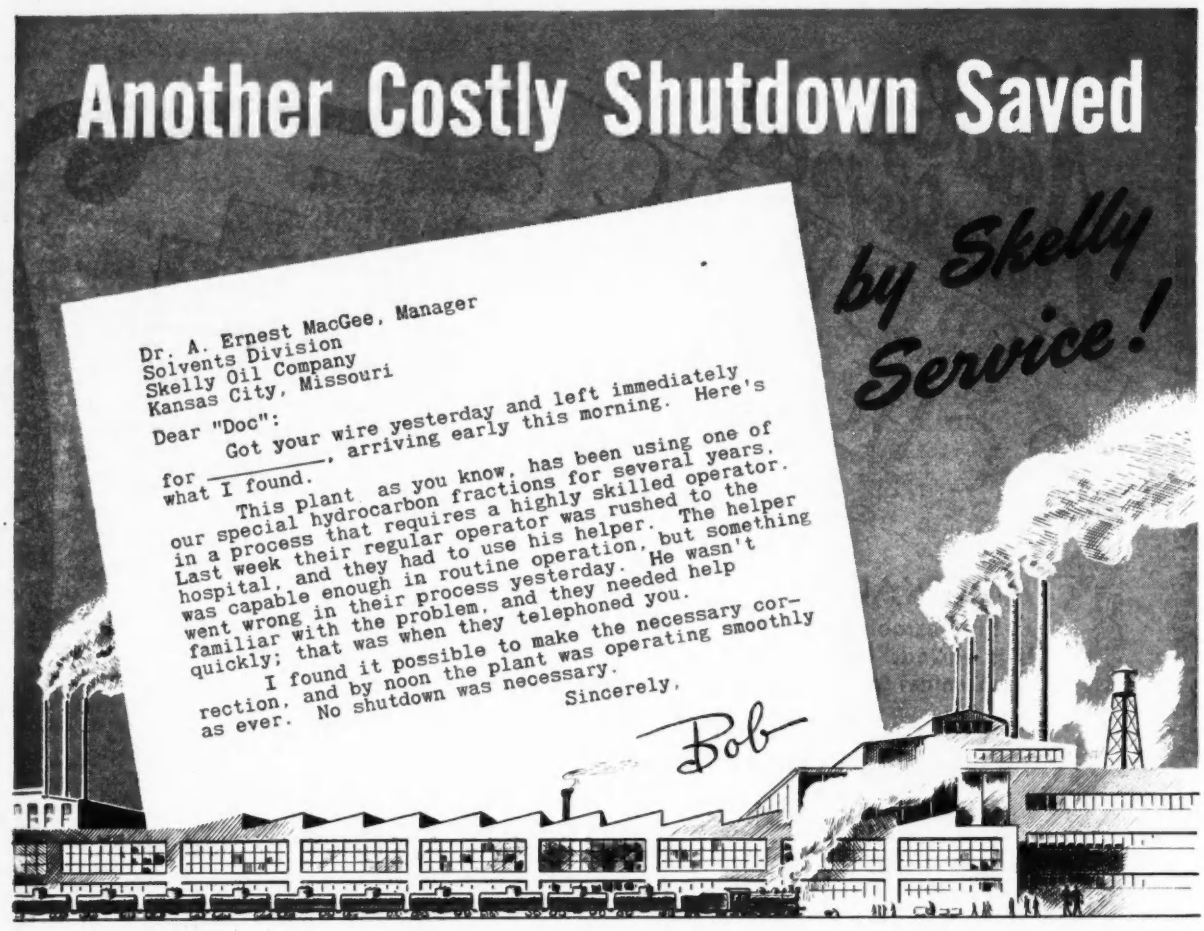
ESTABLISHED 1910 GD AROMATICS DIVISION

Orange mineral, American, bbls., 5 tons, divd. Ariz., Idaho, Nev., Utah, and E. of Cascade Mts. in Ore. and Wash.	lb.	.19	—
Mont., Wyo., Colo., N. Mex.	lb.	.18¾	—
other points	lb.	.18¾	—
smaller lots, Ala., etc.	lb.	.19	—
Ariz., etc.	lb.	.19½	—
Colo., Mont., N. M., Wyo.	lb.	.19¼	—
other points	lb.	.18¾	—
Orange flowers, bls.	lb.	.46	.48
Orange peel, bitter, Haitian, bls.	lb.	.14	.15
Sweet, bls.	lb.	.13½	.14
Oregano, Italian, bgs.	lb.	.27	.27½
Portuguese, bgs.	lb.	.24½	.25½
Orris root, Florentine, bls.	lb.	.40	.41
Verona, bls.	lb.	.24	.25
Portuguese, bls.	lb.	.30	.31
Orthoamyiphenol, dms., works.	lb.	.25	—
Orthoanisidin, bbls.	lb.	.70	—
Orthochloroanilin, dms.	lb.	.60	—
Orthochlorophenol, dms.	lb.	.25	.27
Orthocresol, 30.4° C., min., M.P., dms., c.l., works.	lb.	.17½	.22
l.c.l., works	lb.	.18	.18½
29° C., min., M.P., dms., c.l., works.	lb.	.16½	.17
l.c.l., works	lb.	.17	.17½
Orthodichlorobenzene, dms., c.l., works, frt. alld. E. of Rockies	lb.	.07½	.08
l.c.l., same basis	lb.	.08½	.10
tanks, same basis	lb.	.07	—
Orthodichlorobenzene prices W. of Rockies 1c. per lb. higher.			
Orthonitroanilin, dms.	lb.	.43	.55
Orthonitrochlorobenzene, dms.	lb.	.15	.18
Orthonitrodiphenyl, tech., grade A., dms., c.l., works.	lb.	.10	—
l.c.l., works	lb.	.11	—
grade B, dms., c.l., works.	lb.	.06	—
l.c.l., works	lb.	.07	—
Orthonitroparachlorophenol, cns.	lb.	.75	—
Orthonitrotoluene, dms.	lb.	.08	.09
Orthophenetidin, dms.	lb.	.90	—
Orthotoluidin, dms.	lb.	.18	.19
Osage orange crystals, bbls.	lb.	.32	—
extract, No. 1, bbls.	lb.	.15	—
Ouabaine, USP, bots.	gram.	3.00	4.00
Oxyquinolin sulphate, cns., 100 lbs., works.	lb.	6.40	—
small lots, works	lb.	6.55	7.40

P

Papain, powd., cs.	lb.	6.50	6.75
Papaverine, natural or synthetic, hydrochloride, NF, cns., 1,000-oz. lots.	oz.	7.00	—
smaller lots	oz.	7.25	7.60
Sulphate, cns.	oz.	7.10	7.35
Paprika, Chilean, bgs.	lb.	.37½	.38
Portuguese, bgs.	lb.	.43	.45
Spanish, bgs.	lb.	.50	.52
Para-anisidin, dms., works.	lb.	.75	—
Parachlorophenol, dms., c.l., works,	lb.	.24	—
l.c.l., same basis	lb.	.25	.27
Paracresol, bots., works.	lb.	.41	—
Paracymene, dms., c.l., works.	lb.	.1595	—
l.c.l., same basis	lb.	.1645	—
tanks, same basis	lb.	.1545	—
Paradichlorobenzene, dms., c.l., works.	lb.	.12½	—
l.c.l., same basis	lb.	.14	—
Paraffin, crude, scale, white or yellow, 124-126 ASTM, bbls., c.l., refinery.	lb.	.06	.06¼
fully ref'd slabs, loose, 117-119 ASTM, c.l., refinery.	lb.	.05	—
123-125 ASTM, refinery.	lb.	.0610	.0645
125-127 ASTM, refinery.	lb.	.0610	.0655
128-130 ASTM, refinery.	lb.	.0640	.0675
130-132 ASTM, refinery.	lb.	.0665	—
133-135 ASTM, refinery.	lb.	.0695	.0710
135-137 ASTM, refinery.	lb.	.0720	—
Prices in bags 4/10c. lb. higher.			
Paraformaldehyde, dms., 1,000 lbs. or more, works.	lb.	.21	—
smaller lots, works	lb.	.22	—
Paraldehyde, tech., 98%, 55 and 110-gal. dms., l.c.l., wks.	lb.	.13	—
lo-gal. dms., works	lb.	.16	—
USP, cbys.	lb.	.49	.62
Paranitroanilin, kgs., works.	lb.	.41	.43
Paranitrochlorobenzene, kgs., wks.	lb.	.15	—
Paranitrophenol, kgs.	lb.	.35	—
Paranitrotoluene, kgs., works.	lb.	.30	—
Paraphenylenediamine, tech., kgs.	lb.	1.25	—
Paratoluenesulphonamide, bbls.	lb.	.70	—
Paratoluidin, bbls., works.	lb.	.44	—
Paris green, dealer, distributor, dms., kgs., c.l., works, frt. alld. East.	lb.	.31	—
l.c.l., same basis	lb.	.32	.33
Passion flower herb, bls.	lb.	.48	.50
Patchouli leaves, bls.	lb.	.38	.40
Pectin, bbls.	lb.	1.25	—
Penicillin, amorph., calcium, bulk, 1,000,000,000 units.	100,000 units.	.21	—
sodium, bots.	100,000 units.	.27	—
cryst., sodium, bots.	100,000 units.	.31	—
bulk, 1,000,000,000 units.	100,000 units.	.25	—
Pennyroyal leaves, bls.	lb.	.24	.25
Pentachlorophenol, dms., works.	lb.	.20	.25
Pentaerythritol, tech., bbls., c.l., works.	lb.	.32	—
l.c.l., works	lb.	.34	.36
Pentane, 28°-38° C., industrial grade, dms., c.l., Group 3,	gal.	.11	—
l.c.l., dms., Group 3.	gal.	.19	—
tanks, Group 3	gal.	.07½	.07½
28°-38° C., laboratory grade, 10-gal. cns., divd. E.	gal.	.55	—
dms., c.l., Group 3	gal.	.16	—
l.c.l., Group 3	gal.	.29	—
Pepper, black, bgs.	lb.	.55	.56
futures, bgs., Feb.	lb.	.52	.54
Red, capsicum, Carolina longs, new crop, bgs., shipment point.	lb.	.50	.55
sports, old crop, bgs.	lb.	No stocks	
Louisiana, longs, new crop, bgs., shipment point.	lb.	.30	.31
sports, bgs.	lb.	No stocks	
Niger, bgs.	lb.	.45	.46
Chillies, Haitian, bgs.	lb.	.55	.57
Mexican, long.	lb.	.50	.51
White, bgs.	lb.	.58	.59
Peppermint, dom., USP, bls.	lb.	1.00	1.05
imported, USP, bls.	lb.	.96	1.00
Perchloroethylene dms., c.l., Zone 1, works, frt. alld.	lb.	.09¼	—
Zone 2, same basis.	lb.	.09¾	—
Zone 3, same basis.	lb.	.10¼	—
Zone 4, same basis.	lb.	.10¾	—
l.c.l., Zone 1, same basis.	lb.	.09¾	—
Zone 2, same basis.	lb.	.10¼	—
Zone 3, same basis.	lb.	.10¾	—
Zone 4, same basis.	lb.	.10¾	—
Perchloroethylene zones are:—(1) Conn., Del., Ill., Ind., Ia., Ky., Me., Md., Mass., Mich., Minn., Mo., Neb. (Omaha), Kans. (Kansas City), N. J., N. Y., N. C., Ohio, Pa., R. I., Tenn., Vt., Va., W. Va., Wis.; (2) Ala., Ark., Fla., Ga., Kansas, La., Miss., Neb., N. D., Okla., S. C., S. D.; (3) Col., Mont., (E) N. M., Tex., Wyo.; (4) Ariz., Cal., Idaho, Mont. (W), Nev., Ore., Utah, Wash.			
Peru balsam, dms.	lb.	1.25	1.30
Petrolatum, tech., dark, bbls., c.l., Group 3.	lb.	.021	—
golden topaz, bbls., c.l.	lb.	.032	—
l.c.l.	lb.	.036	—
red, veterinarian, bbls., c.l.	lb.	.024	—
l.c.l.	lb.	.028	—
USP, amber, non-ret dms., c.l.	lb.	.05	—
l.c.l.	lb.	.06	—
extra, amber, dms., c.l.	lb.	.05¼	—
l.c.l.	lb.	.06¼	—
cream, c.l., dms.	lb.	.07	—
l.c.l.	lb.	.08½	—
white, lily, dms., c.l.	lb.	.07¼	—
l.c.l.	lb.	.08¾	—
snow, dms., c.l.	lb.	.08¼	—
l.c.l.	lb.	.09¾	—
soft, dms., c.l.	lb.	.07¼	—
l.c.l.	lb.	.08¼	—
yellow, soft, dms., c.l.	lb.	.05½	—
l.c.l.	lb.	.06½	—
Petroleum, crude, bulk, at wells, California, heavy grades.	bbl.	1.28	1.89
Illinois	bbl.	1.60	1.82
Kentucky, Union County.	bbl.	1.72	1.77
Louisiana-Arkansas	bbl.	1.19	1.98
Montana	bbl.	1.50	1.79
Oklahoma-Kansas	bbl.	1.28	1.70
Pennsylvania, lower field.	bbl.	3.30	3.55
Upper field.	bbl.	1.76	3.30
Texas East.	bbl.	1.30	1.70
Gulf coast.	bbl.	1.38	1.81
North, North-Central.	bbl.	1.28	1.70
Panhandle	bbl.	1.28	1.70
West	bbl.	1.15	1.57
Wyoming	bbl.	.95	1.70
Ether, laboratory grade, 30°-60° C, 10-gal. cns., divd. E.	gal.	.55	—
dms., c.l., Group 3.	gal.	.16	—
l.c.l., same basis.	gal.	.29	—
35°-60° C, 10-gal. cns., divd. E.	gal.	.55	—
30°-60°, dms., c.l., Group 3.	gal.	.16	—
l.c.l., same basis.	gal.	.29	—
40°-75° C, 10-gal. cns., divd. E.	gal.	.55	—
dms., c.l., Group 3.	gal.	.16	—
l.c.l., same basis.	gal.	.29	—
Fuel oil, furnace, tanks, at refinery, Arkansas, No. 2.	gal.	.04½	—
No. 3	gal.	.04¼	—
Bayonne, No. 2, tanks.	gal.	.0640	—
California, heavy	bbl.	1.30	1.35
light	bbl.	1.50	1.55
diesel	gal.	.0675	.0725
Group 3, No. 1	gal.	.04¾	.04¾
No. 2, straw	gal.	.04½	.04¾
No. 3	gal.	.04	.04¼
Oklahoma, No. 1, p.w.	gal.	.04¾	.05¼
No. 1, straw	gal.	.04¾	—
No. 2, straw	gal.	.04½	.04¾
No. 3	gal.	.04	.04¼
No. 6	bbl.	1.15	1.35
range	gal.	.04½	—
Pennsylvania, No. 1	lb.	.06¾	.07
No. 2	gal.	.06¼	.06¾
No. 3	gal.	.06¼	.06¾
36-40 gravity	gal.	.06¼	—
Bunker C (No. 6), tanks, Albany, N. Y.	bbl.	2.02	—
Baltimore, Md.	bbl.	1.82	—
Boston, Mass.	bbl.	2.06½	—
Charleston, S. C.	bbl.	1.93	—
Jacksonville, Fla.	bbl.	1.93	—
New York, N. Y.	bbl.	2.02	—
Norfolk, Va.	bbl.	1.93	—
Philadelphia, Pa.	bbl.	2.02	—
Portland, Me.	bbl.	2.06	—
Providence, R. I.	bbl.	2.04	—
Savannah, Ga.	bbl.	1.93	—
Lacquer diluent, California, 100 l.b.n., 200 e.p., tanks, divd. Los Angeles.	gal.	.11	—
Seattle, Wash.	gal.	.12	—
East Coast, N. J., N. Y., tanks, refinery.	gal.	.12½	—
Group 3 benzol type, tanks.	gal.	.08¾	.09¼
toluol type, tanks.	gal.	.08¾	.09¼
San Francisco.	gal.	.11½	—
Portland, Ore.	gal.	.12	—
Mineral spirits, California, San Francisco, 170-250 b.r., tanks.	gal.	.11¼	—
205-290 b.r., tanks.	gal.	.11¼	—
244-362 b.r., tanks.	gal.	.11½	—
307-360 b.r., tanks.	gal.	.11	—
312-402 b.r., tanks.	gal.	.10	—
362-458 b.r., tanks.	gal.	.10	—
East Coast, N. J., N. Y., tanks, refinery.	gal.	.11	—
Group 3, tanks, refinery.	gal.	.07½	—
Gulf coast, tanks.	gal.	.07¾	—
tankwagon, Baltimore.	gal.	.14½	—
Boston	gal.	.13	—
Buffalo	gal.	.13¼	—
Camden, N. J.	gal.	.11¼	—
Chicago	gal.	.1460	—
Detroit	gal.	.1710	—
Kansas City, Mo.	gal.	.143	—
Lancaster, Pa.	gal.	.13¼	—
Newark	gal.	.12	—

Another Costly Shutdown Saved by Skelly Service!


Dr. A. Ernest MacGee, Manager
Solvents Division
Skelly Oil Company
Kansas City, Missouri
Dear "Doc":
Got your wire yesterday and left immediately for _____, arriving early this morning. Here's what I found.
This plant as you know, has been using one of our special hydrocarbon fractions for several years. in a process that requires a highly skilled operator. Last week their regular operator was rushed to the hospital, and they had to use his helper. The helper was capable enough in routine operation, but something went wrong in their process yesterday. He wasn't familiar with the problem, and they needed help quickly; that was when they telephoned you.
I found it possible to make the necessary correction, and by noon the plant was operating smoothly as ever. No shutdown was necessary.
Sincerely,
Bob

"DOC" MacGEE SAYS: Every user of special industrial naphthas recognizes certain qualities as being highly important in the product supplied him. Purity, uniformity, and dependability are not only desirable, they are essential.

Sooner or later, every user realizes the importance of another factor—*ability of the supplier to render special service in emergencies!* When that occasion arises, the quick and effective action Skelly is famous for may mean a great deal to you. The emergency may call for rushing you a tank truck or drum shipment of solvent from our Chicago bulk plant to cover a sudden shortage. It may entail double-rushing a shipment or diverting a tank car in transit; or, it may require sending out a specially trained man to help correct a stubborn problem.

Whatever the circumstances, you can depend on our snapping into action to give you help when you need it. That's one more reason why so many firms have found it pays to do business with Skelly! Write today for complete information on Skellysolve service.

SKELLYSOLVE
In the Ink, Paint, and Drug Field

Skellysolve meets every special naphtha quality needed in this field . . . purity, uniformity, close boiling ranges, low evaporation, etc. That is why you can rely on every Skellysolve. There is one with special qualities for production of paint, varnish, oilcloth, ink, linoleum, and other related products . . . as well as for laboratory use. For instance, there is a full line of V. M. & P. naphthas, mineral spirits, and lacquer diluents, plus other special hydrocarbons. And, for help on your particular problems, remember to use the services of Skellysolve Technical Fieldmen.

SKELLY

Skellysolve

SOLVENTS DIVISION, SKELLY OIL COMPANY, KANSAS CITY, MISSOURI

IT might be said that the sun never sets on "Gulf" territory — for the products of the Gulf Oil Corporation are delivered to every part of the globe where oil and gasoline are used. Gulf is one of the world's largest users of drums. And to make these drums veritable fortresses for Gulf's fine products — to make them impervious to seepage, contamination and substitution — Gulf drums are equipped with Tri-Sure Closures.

The Gulf Oil Corporation has recognized the advantages of Tri-Sure Closures for 15 years. They have used these closures for the same reasons that most of the world's leading shippers of liquids have specified "Tri-Sure": the interlocking Tri-Sure flange, plug and seal are demonstrably the best protection ever devised for safeguarding a product in drums, and for protecting a valued reputation.

AMERICAN FLANGE & MANUFACTURING CO. INC.
30 Rockefeller Plaza, New York 20, N. Y.
Tri-Sure Products Limited, St. Catharines, Ontario, Canada

Tri-Sure
Reg. U. S. Pat. Off.
CLOSURES

Petroleum, mineral spirits, tank-wagon, New York	gal.	.12	—
Philadelphia	gal.	.12	—
Pittsburgh	gal.	.13½	—
Providence	gal.	.15	—
Rochester	gal.	.13½	—
St. Louis	gal.	.149	—
Syracuse	gal.	.15½	—
Washington, D. C.	gal.	.14½	—
Wilmington, Del.	gal.	.12	—
Naphtha, cleaners, California, tanks, San Francisco	gal.	.13	—
East coast, N. J., N. Y., tanks, refinery	gal.	.11	—
Group 3, tanks, refinery	gal.	.08¼	—
tankwagon, Newark	gal.	.06½	—
Chicago	gal.	.14¼	—
Detroit	gal.	.15½	—
New York	gal.	.12	—
Philadelphia	gal.	.123	—
St. Louis	gal.	.1470	—
high-solvency, No. 3, tanks, Paulsboro, N. J.	gal.	.16	.22½
No. 30, tanks, same basis,	gal.	.17	.22
No. 40, tanks, same basis,	gal.	.17¼	.23
No. A-80, tanks, Carteret, N. J.	gal.	.21½	—
high solvency, No. A-90, tanks, Chicago, Cincinnati, Detroit	gal.	.24	Nom.
No. B-90, tanks, all shipping points	gal.	.24½	—
No. F-60, tanks, Carteret, N. J.	gal.	.23	—
V.M.&P., at refinery, California, 46.5, 254 i.b.p., 380 e.p., tanks, El Segundo	gal.	.12	—
Richmond	gal.	.12½	—
Portland, Ore., Seattle, Wash.	gal.	.12	—

Petroleum naphtha, VM&P, at refinery, California, 64-77, 190 i.b.p., 810 e.p., Los Angeles	gal.	.11	—
San Francisco	gal.	.11½	—
Portland, Seattle	gal.	.12	—
E. Coast, N. J., N. Y., tanks, refinery	gal.	.12	—
Group 3, tanks	gal.	.081	- .08125
Gulf Coast (divd. New Orleans), tanks	gal.	.08¾	—
tankwagon, Boston	gal.	.14	—
Chicago	gal.	.149	—
Detroit	gal.	.163	—
Milwaukee	gal.	.165	—
Minneapolis	gal.	.164	—
Newark	gal.	.13½	—
New York	gal.	.13	—
Philadelphia	gal.	.13½	—
Pittsburgh	gal.	.14½	—
St. Louis	gal.	.159	—
Solvent, rubber, at refinery, California, San Francisco tanks	gal.	.11½	—
East Coast, N. J., N. Y., tanks	gal.	.12	—
Group 3, tanks	gal.	.08½	—
Stoddard (C.S. 8-33), at refinery):— California (San Francisco) tanks	gal.	.12	—
East Coast, N. J., N. Y.,			
Group 3, tanks	gal.	.07½	—
Pennsylvania, western, tanks	gal.	.08¼	—
tankwagon, Boston	gal.	.13	—
Chicago	gal.	.14½	—
Detroit	gal.	.16½	—
Milwaukee	gal.	.15½	—
Minneapolis	gal.	.1540	—
Newark	gal.	.13½	—
New York	gal.	.12	—
Philadelphia	gal.	.11½	—
Pittsburgh	gal.	.13	—
St. Louis	gal.	.14½	—
Syracuse	gal.	.15½	—

Petroleum sulphonates, 60% sulphonic content, ret. dms., c.l., works	lb.	.09¾	—
l.c.l., works	lb.	.09¾	.10¾
tanks, works	lb.	.09¼	—
50% sulphonic content, ret. dms., c.l., works	lb.	.09¾	—
l.c.l., works	lb.	.09¾	.10¾
tanks, works	lb.	.09½	—
Phenobarbital, dms., 100 lbs.	lb.	3.50	—
Phenol, 90-92% (cresol, 8-10%), dms., c.l., wks., frt. equald.	lb.	.11	.12½
l.c.l., same basis	lb.	.11¾	.13
tanks, same basis	lb.	.10	.10½
82-84% (cresol, 16-18%), dms., c.l., same basis.	lb.	.11	.11¼
l.c.l., same basis	lb.	.11¾	.12
tanks, same basis	lb.	.10	.10½
USP, dms., c.l., same basis.	lb.	.11¼	.13
l.c.l., same basis	lb.	.12	.13¼
tanks, same basis	lb.	.10¼	.11¾
Phenolphthalein, USP, bbls., dms.,			
Phenolphthalein, USP, bbls., dms., 2,000 lbs.	lb.	.85	—
smaller lots	lb.	.87	.92
Yellow, fib. dms., 2,000 lbs.	lb.	.80	—
smaller lots	lb.	.82	.87
Phenothiazin, NF, fib. dms., ton lots or more, works	lb.	.40	—
smaller lots, works	lb.	.54	—
Phenylacetaldehyde solution, 50%, bots.	lb.	2.35	- 2.50
pure, bots.	lb.	4.00	- 5.15
Phenylethyl acetate, dms.	lb.	2.15	- 3.00
Phenylethylphenyl acetate, bots.	lb.	5.35	- 7.50
Phenylhydrazin base, CP, bots.	lb.	4.55	—
Hydrochloride, CP, bots., works,	lb.	7.10	—
commercial, kgs., works	lb.	1.75	—
Phloroglucinol, CP, fib. dms.	lb.	13.75	-14.75
tech., fib. dms.	lb.	12.00	-12.55

Phosgene, ton lots, works	lb.	.10	—
Phosphate, defluorinated (see under D).			
Phosphate rock, Fla., land pebble unground, run-of-mine, washed, dried, 68%-66% b.p.l., bulk, car at mine, c.l. long ton.		2.60	—
70%-68%, same basis. long ton.		3.00	—
72%-70%, b.p.l., same basis. long ton.		3.60	—
75%-74%, b.p.l., same basis. long ton.		4.00	—
77%-76%, b.p.l., same basis. long ton.		5.60	—
entirely pebble 50c. per ton higher t above prices,			
finely ground, 65.5% b.p.l., 30% P_2O_5 minimum. short ton.		3.15	—
68%, b.p.l., basis 31% P_2O_5 minimum. short ton.		3.35	—
70%, b.p.l., basis 32% P_2O_5 minimum. short ton.		3.70	—
Tennessee, brown, unground, run-of-mine, 70-68% b.p.l., 5½% i. & a., same basis. long ton.		5.50	—
72%-70%, b.p.l., 5½% i. & a., same basis. long ton.		6.00	—
29% P_2O_5, same basis. long ton.		5.15	—
30% P_2O_5, same basis. long ton.		5.35	—
finely ground, 31% P_2O_5, same basis. short-ton.		5.45	—
32% P_2O_5, same basis. short ton.		5.70	—
33% P_2O_5, same basis. short ton.		6.20	—
Phosphorus, red amorphous, cs.	lb.	.33	—
tins, export	lb.	.55	—
yellow, cns.	lb.	.25	—
dms., c.l.	lb.	.22	—
Oxychloride, dms., c.l.	lb.	.10½	—
Pentoxide, dms., c.l., works.	lb.	.12	—
l.c.l., works	lb.	.13	—
Sesquisulphide, tins, cs.	lb.	.26	—
Trichloride, dms., c.l.	lb.	.10½	—
l.c.l.	lb.	.12½	—
Phthalamide, bbls., works.	lb.	.35	—
kgs., works	lb.	.45	—
Phthalic anhydride, bgs., bbls., c.l., works, frt. alld. E. of Denver.	lb.	.14½	—
l.c.l., same basis.	lb.	.15½	—
Pichi leaves, bgs.	lb.	.07	—
Picoline (see Alphapicoline and Betapicoline).			
Picrotoxin, bots.	oz.	8.00	—
Pilocarpine hydrochloride, USP, bots., vials.	oz.	5.25	- 6
Nitrate, bots., vials.	oz.	5.15	- 6
Pimento, Jamaica, bgs.	lb.	.24½	—
Pinetar, retort, dms., extra, c.l., works, South.	gal.	.36½	—
l.c.l., works, dms., extra.	gal.	.38½	—
l.c.l., whse., N.Y.C., dms., extra.	gal.	.47¾	—
tanks, works, South.	gal.	.30½	—
Pinkroot, bls.	lb.	1.10	- 1
Piperazine hexahydrate, bots.	lb.	16.00	-17
Pitch, burgundy (see B). Coaltar, 160° m.p., bbls., c.l., works.	ton.	20.90	—
l.c.l., works	ton.	24.20	—
Cottonseed, dms., works.	lb.	.10¼	—
Hardwood, paper bgs., works.	lb.	.04	—
Linseed, dms.	lb.	No price	
Petroleum (see Asphaltum, Mexican, Texas).			
Pine, dms.	100 lbs.	6.50	—
stands, 200 lbs.	stand.	6.00	—
Soybean, dms., works.	lb.	.10¼	—
Plaster of paris (see Gypsum).			
Podophyllin, dms.	lb.	12.25	-12
Pokeroot, bls.	lb.	.16	—
Polystyrene, plain colors, dms., 30,000 lbs., works, frt. alld.	lb.	.31½	—
20,000 lbs., frt. alld.	lb.	.32½	—
smaller lots, frt. alld.	lb.	.33½	—
Water-clear, polystyrene, 7c. per lb. than plain colors.			
Pomegranate, root bark, bgs.	lb.	.75	—
Poppy flowers, bls.	lb.	.60	—
Seed, Argentine, bgs.	lb.	.20	No
Danish, bgs.	lb.	.20	No
Dutch	lb.	.22½	—
Turkish, bgs.	lb.	.21	—
Potash abietate	lb.	.08	—
Acetate, USP, dms.	lb.	.32	—
Bicarbonate, USP, gran., dms.	lb.	.20	—
powd., dms.	lb.	.22	—
Bichromate, bgs., c.l., works.	lb.	.10¾	—
l.c.l., works	lb.	.10¾	—
Potash bichromate in bbls., ¼c. highe			
Borate, gran., bbls., c.l., works.	ton.	200.00	—
ton lots, works	ton.	218.50	—
less ton lots, works	ton.	223.50	—
Bromide, USP, cryst., gran., 500-lb. bbls., dms.	lb.	.23	—
Carbonate, calcined, bbls., c.l., works.	lb.	.07½	—
l.c.l., same basis	lb.	.08	—
hydrated, 83-85%, bbls., c.l., works.	lb.	.06¾	—
dms., l.c.l., same basis.	lb.	.06½	—
USP, gran., bbls., dms.	lb.	.15½	—
powd., bbls., dms.	lb.	.20	—
Caustic, low-chloride, 90% basis, flake, dms., c.l., works.	100 lbs.	9.50	—
l.c.l., works	100 lbs.	10.25	—
liquid, dms., c.l., works.	100 lbs.	8.75	—
l.c.l., works	100 lbs.	9.50	—
tanks, works	100 lbs.	8.25	—
solid	100 lbs.	8.75	—
l.c.l., works	100 lbs.	9.50	—
regular, flake, 88-92%, dms., c.l., works.	lb.	.07½	—
l.c.l., works	lb.	.08¼	—
liquid, 45% basis, dms., c.l., works, frt. alld.	lb.	.0337½	—
l.c.l., same basis	lb.	.03¾	—
tanks, same basis.	lb.	.03½	—
solid, 88-92%, dms., c.l., works.	lb.	.06¾	—
l.c.l.	lb.	.07½	—
Chromate, tech., bgs.	lb.	.25	—
Chlorate, cryst., kgs., c.l., works.	lb.	.11	—
l.c.l., works	lb.	.119	—
powd., dms., kgs., c.l., works.	lb.	.0975	—
l.c.l., works	lb.	.119	—
export, 1 to 10 tons, kgs., ex whse.	lb.	.16	—
Chloride, tech., cryst., 98%, bgs., kgs.	lb.	.08	No
Citrate, USP, gran., bbls., dms.	lb.	.33½	—
powd., 3c. per lb. higher.			
Cyanide, dms., works.	lb.	.55	—
Fluoride, bbls.	lb.	.34	—
Glycerophosphate, 75% solution, cbys.	lb.	2.30	—
Guaiacol sulphonate, NF, dms.	lb.	1.80	—
Hydroxide, USP, sticks, dms.	lb.	.34	—
Hypophosphite, cns.	lb.	.72	—
Iodide, dms.	lb.	1.75	—

Aluminum Chloride—As You Like It

Consistently uniform high purity is one reason why processors like to use Hooker Aluminum Chloride, Anhydrous. They know that here is one catalyst that will not "gum up" the works because of unknown impurities or changes in analysis from one shipment to another. Where smooth operations depend upon uniform purity of the Aluminum Chloride, you can depend on Hooker.

In Hooker Aluminum Chloride, too, you have a choice of three sizes from which you can select the one which will give you the best results.

Fine Grind .....an unscreened material practically all passing 20 mesh.

Coarse Grind ....unscreened, 1 mesh and finer containing 25 to 35% finer than 20 mesh.

Coarse Screened ..same as above screened to remove 20 mesh and finer.

Hooker Aluminum Chloride is being used as a catalyst in many Friedel-Crafts syntheses, polymerization, isomerization and halogenation. Practically free from iron (0.05% max.) it is especially desirable in the preparation of derivatives for use in the manufacture of high octane gasoline, lubricants, synthetic rubber, dyes, varnishes and pharmaceuticals.

Additional physical and chemical data on this important chemical are contained in Technical Data Sheet 714, sent when requested on your letterhead. Hooker's Technical Staff is also available for consultation and help on the application of Aluminum Chloride and the other Hooker chemicals to your purposes.

SPECIFICATIONS

Hooker Aluminum Chloride, Anhydrous $AlCl_3$

Gray, crystalline solid in three sizes.

Molecular Weight 133.3

ANALYSIS

Aluminum Chloride	98.5 % min.
Iron	0.05% max.
Non-sublimables in air at 950° C.	1.5 % max.

From the salt of the earth

HOOKER CHEMICALS

HOOKER ELECTROCHEMICAL COMPANY

1 FORTY-SEVENTH ST., NIAGARA FALLS, N. Y.
New York, N. Y. Wilmington, Calif. Tacoma, Wash.

Caustic Soda Paradichlorbenzene Muriatic Acid Chlorine Sodium Sulfide Sodium Sulfhydrate

Potash, manure salt, 22% K_2O, Carlsbad, N.M..unit-ton. .20 - —
25% K_2O, same basis.unit-ton. .21 - —
Metabisulphite, gran., bbls..lb. .19 - .21
powd., bbls. .....lb. .25 - —
Muriate, dom., 60-62-63% K_2O, bulk, ex vessel ports....unit-ton. .53½- —
granular, 50-52% K_2O ex vessel U. S. ports..unit-ton. .53½- —

Domestic muriate of potash prices, basis f.o.b. Carlsbad, N. M. are 11.2c. per unit of K_2O less than ex vessel price, basis Trona, Cal.: 8c. per unit of K_2O less than ex vessel price at Pacific coast ports.

Nitrate (see Saltpeter).
Oxalate, neutral, tech., fine gran., bbls., dms..lb. .28 - .84
Perchlorate, kgs., works....lb. .10 - .11
Permanganate, tech., dms., works..lb. .20¾- .21¼
USP, dms., works.....lb. .22½- .23
Persulphate, dms., c.l., works, lb. .16 - —
l.c.l., same basis.....lb. .20 - —
Phosphate, tetrabasic, bbls., works..lb. .13 - .13½
Prussiate, red, kgs.....lb. .55 - .58
Yellow, bbls. .....lb. .19 - —
Ricinoleate, tech., bbls.....lb. .18 - —
Silicate, glass, bgs., c.l., works, ton.200.00 - —
l.c.l. .....100 lbs.15.25 - —
solution, 29° Be. ret. drums, c.l., works..100 lbs. 4.25 - —
l.c.l., 5 or more, works... 100 lbs. 5.00 - —
1-4, works.....100 lbs. 5.50 - —
32° Be, ret. dms., c.l., works, 100 lbs. 4.75 - —
l.c.l., 5 or more, works. 100 lbs. 5.50 - —
1-4, works.....100 lbs. 6.00 - —
40.5° Be, ret. dms., c.l., works..100 lbs. 5.75 - —
l.c.l., 5 or more, works. 100 lbs. 6.50 - —
1-4, works .....100 lbs. 7.00 - —
Sulphate, NF, cryst.....lb. .30½- .33½
powd., bbls. .....lb. .14½- .17
tech., dom., bulk[6] basis, 90-95% K_2O_4, min. 90%, ex vessel Atlantic or Gulf ports..ton.36.25 - —
West coast potash ports, same basis..ton.39.25 - —
Sulphocyanide, cryst., N.F., dms..lb. .62 - .70
Triocyanate (see Potash sulphocyanide).
Xanthate, dms., c.l.....lb. .12 - —
Potash-magnesia sulphate, bulk, min., 40% K_2SO_4 18.50% MgO, ex vessel, ports...ton.26.00 - —
Potash-soda ferricyanide, kgs., works..lb. .45 - .48
Potash-titanium oxalate, bbls., dms..lb. .45 - .50
Prickly ash bark, bls.....lb. .40 - .45
Berries, bgs. .....lb. .50 - .60
Prince's pine herb, bls.....lb. .50 - .65
Procaine hydrochloride, cns., 100-lb. lots..lb. 5.00 - —
Propane, industrial grade, tanks, Group 3..gal. .03¾- —
Propyleneglycol, dms., c.l., frt. alld. in E..lb. .15½- —
l.c.l., same basis.....lb. .16½- —
tanks, same basis.....lb. .14½- —
Psyllium seed (see Fleaseed).
Pulsatilla, bls. .....lb. .60 - .65
Pumice, grd., fine, bgs., ton lots, lb. .03½- —
smaller lots.....lb. .03¾- .04
coarse, 0½, 1, 1½, 2, 3, bgs., ton lots..lb. .03¾- —
smaller lots.....lb. .03¾- .04¼
Chl., ton lots.....lb. .04½- —
Pumice in bbls. is ½c. per lb. higher.
Pumpkin seed, bgs.....lb. .27 - .28
Purple lake (see Red).
Putty, com'l, dms.....100 lbs. 3.15 - —
linseed oil, raw, dms...100 lbs. 5.00 - —
refined, dms. .....100 lbs. 5.50 - —
standard, dms. .....100 lbs. 4.20 - —
Pyrethrum, concentrate, dewaxed, 20% for aerosol bombs, dms., works..lb. 9.25 - 9.30
liquid (20 to 1), basis 2 grams pyrethrins for 100 cc., dms., regular base, works..gal. 6.65 - —
odorless base, dms., works, gal. 6.75 - —
(30 to 1), base 3 grams pyrethrins, per 100 cc., bbls., works..gal.10.00 - —
Pyrethrum, flowers, fine-grd., 0.9% pyrethrins, bbls., works..lb. .33¾- —
powder, 0.5% pyrethrins, bbls., works..lb. .25 - —
Pyridin, denaturing, ret. dms., works, frt. equald..gal. 1.55 - 1.90
refd., 2°, ret. dms., same basis, lb. .55 - .55½
Pyridoxin, 100-gram lots....kilo.750.00 - —
Pyrites, Spanish, c.l.f. Atl. ports, long-ton. 8.00 -10.00
Pyronate, dms., c.l., divd. E. of Miss..gal. .70 - —
l.c.l., works.....gal. .70 - —
tanks, divd., E. of Miss....gal. .60 - —
Pyronate prices W. of Miss. 3c. per gal. higher.
Pyrocatechin (see Catechol).
Pyrophylite, standard, 200 mesh, c.l., bulk, mines..ton.10.00 -11.50
325 mesh, same basis...ton.13.00 -13.00
No. 3, 200 mesh, c.l., mines.ton. 9.50 - —
325 mesh, same basis....ton.11.50 - —
Pyrophylite in paper bags., $1.50 per ton extra.
Pyroxylin, scrap, opaque, amber, cs., works..lb. .17 - —
black, cs., works.....lb. .17 - —
gray, cs., works.....lb. .17 - —
mixed, mottled, cs., wks.lb. .14 - —
white, China, ivory, cs., wks. lb. .17 - —
dense, cs., works.....lb. .17 - —
translucent, pastels, cs., works..lb. .17 - —
transparent, cs., works....lb. .19 - —
colors, cs., works.....lb. .17 - —
shavings, amber, cs., works. lb. .17 - —
mixed colors, cs., works..lb. .14 - —
white, cs., works.....lb. .17 - —

Q

Quassia chips, bls.....lb. .09 - .12
Quebracho extract, solid, 65% tannin, bgs., c.l., ex dock, in bond..lb. .07¼- —
clarified, 64% tannin, bgs., c.l., same basis..lb. No prices
35% tannin, bbls., works. lb. No prices
tanks, works.....lb. No prices
ground, 70% tannin, bgs., c.l. lb. No prices

Quebracro extract prices based on $20 freight and $1.00 insurance per long ton.

Queen of the meadow root, bgs. lb. .20 - .22

Quercitron crystals, bbls.....lb. .35 - —
Extract, No. 1, bbls.....lb. .14 - —
solid, bxs.....lb. .23 - —
Quicksilver, flasks (76 lbs. net) flask.87.00 -89.00
Quince seed, bgs.....lb. 1.30 - 1.75
Quinidine, NF V, cryst., cns.oz. No stocks
powd., precip., cns.....oz. No stocks
Sulphate, USP, cns.....oz. No stocks
Quinine, NF, cns., 100 ozs....oz. No stocks
Acetate, cns., 100 ozs.....oz. No stocks
Arsenate, cns., 100 ozs.....oz. No stocks
Arsenite, cns., 100 ozs.....oz. No stocks
Bisulphate, USP, cns., 100 ozs. oz. No stocks
Dihydrobromide, bots., 50 ozs. oz. No stocks
Citrate, cns., 100 ozs.....oz. No stocks
Ethylcarbonate, USP, cns., 100 ozs..oz. No stocks
Ferrocyanide, cns., 100 ozs..oz. No stocks
Formate, cns., 100 ozs.....oz. No stocks
Glycerophosphate, cns., 100 ozs. oz. No stocks
Hydrochloride, USP, cns., 100 ozs..oz. .89½- —
Hydrochlorosulphate, cns., 100 ozs..oz. No stocks
Hydroiodide, cns., 100 ozs..oz. No stocks
Hypophosphite, cns., 100 ozs.oz. No stocks
Phosphate, NF, cns., 100 ozs.oz. No stocks
Salicylate, NF, cns., 100 ozs.oz. No stocks
Sulphate, USP, cns., 100 ozs.oz. .80½- —
Sulphocarbolate, cns., 100 ozs. oz. No stocks
Tannate, USP X, cns., 100 ozs. oz. No stocks
Tartrate, cns., 100 ozs.....oz. No stocks
Valerate, NF IV, 100 ozs....oz. No stocks
Quinine-urea hydrochloride, USP, cns..oz. No stocks
Quinoline, dms., c.l., works...lb. .32 - .50

R

R salt, dry, bbls.....lb. .72 - —
paste, dms. .....lb. .57 - —
Raspberries, dried, bls.....lb. 2.20 - 2.25
Red, alizarin lake, bbls., dlvd. N. of Tenn. and N. C., E. of Miss R., including St. Paul, Minneapolis, Davenport, Rock Island, St. Louis...lb. 1.10 - 1.90

Prices ½c. per lb. higher dlvd. Ala., Fla., Ga., La. (Shreveport, 1¼c.), Miss., N. C., S. C., Tenn., Tex. (Dallas, Ft. Worth, 1¼c.) (El Paso, 2c.), Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph, 1.6c. per lb. higher dlvd. Pacific Coast prices equaled with Chicago dlvd. Denver, Pueblo, Salt Lake City, Wichita.

Cadmium lithopone, deep shade, bbls., frt. alld. E. of Rockies..lb. 1.05 - 1.30
light shade, bbls., same basis..lb. .90 - 1.15
maroon, bbls., same basis. lb. 1.15 - 1.25
medium shade, bbls., same basis..lb. 1.00 - 1.10
medium-light shade, bbls., same basis..lb. .93 - 1.05
Orange-red, bbls., same bass..lb. .95 - 1.00

Red cadmium lithopone, all shades, in smaller pkgs. 5c. per lb. higher; all prices are 1c. per lb. higher ex whse., Los Angeles and San Francisco.

Carmine, No. 40, dms., bulk, works..lb. 5.50 - —
smaller lots, same basis..lb. 6.10 - —
Crocus martis (see Red, purple, oxide).
Dyes (see Dyes, coaltar).
Red, eosin toner, bbls., works.lb. 1.35 - —
Firetoner, dom., bbls., works.lb. .85 - .92
Indian, dom., pure, bgs., Bethlehem, Easton, E. St. Louis, N. Y..lb. .09 - .09¼
80-85%, bgs., same basis..lb. .07½- .07¾
imp., English, all shades..lb. .12 - —
Iron oxide, pure, bbls.....lb. .09½- .09¾
reduced, 85% copperas oxide, bbls., l.c.l., Bethlehem, Pa., Copley, O., Easton, Pa., and E. St. Louis..lb. .06¾- —
80% copperas oxide, bbls., same basis..lb. .085 - .094
Lacquer, maroon, bbls., works, lb. 1.25 - —
Lake C toner, alizarin, bbls., works..lb. 1.05 - —
Lithol toner, alizarin, lake, bbls., works..lb. .70 - —
Pink, bbls., works.....lb. .20 - .25
Rose lake, bbls., works.....lb. .25 - .28
Lithol-rubin toner, alizarin lake, bbls., works..lb. 1.30 - —
Maroon, alizarin lake, 25%, kgs., works..lb. .40 - —
Cadmium, bbls., works.....lb. 1.10 - —
deep, bbls., same basis..lb. 1.20 - —
Maroon, in smaller pkgs., 5c. per lb. higher.
Mercury oxide, tech., bbls., 10,000 lbs., works..lb. 2.30 - —
smaller lots, works...lb. 2.32 - —
Metallic, bbls., works.....lb. .02 - —
Oxide (see Red, iron oxide).
Para toner, chlorinated, kgs.lb. .97 - —
concent., alizarin lake, kgs., works..lb. .80 - —
Persian (see Orange).
Phloxin toner (see Red, eosin toner).
Phosphotungstic, rhodamine, Y, kgs., works..lb. 4.15 - —

General Chemical Research Presents

BASIC CHEMICALS
GENERAL CHEMICAL COMPANY
FOR AMERICAN INDUSTRY ©

Sulfan*

Brands of STABILIZED SULFURIC ANHYDRIDE

General Chemical Company—America's pioneer with the Contact Process for manufacture of high strength sulfuric acid and oleum—makes another major contribution to Basic Chemicals for American Industry with SULFAN . . . Anhydride of Sulfuric Acid.

By perfecting new methods of stabilizing Sulfur Trioxide, General Chemical Research takes an invaluable chemical tool off the shelf of laboratory curiosities and brings it to the Process Industries as a chemical of commerce for use in a host of ways.

General Chemical offers SULFAN in three chemically equivalent forms:

Sulfan 'A' Partially Stabilized, melting at approx. 35°C;

Sulfan 'B' Completely Stabilized, melting at approx. 17°C; and

Sulfan 'C' Unstabilized.

Experimental samples and further technical information are available on request from General Chemical Company, Research and Development Division, 40 Rector Street, New York 6, N. Y.

Some Potential Uses

1. For fortification of spent oleum, making possible a ready supply of any strength oleum.
2. In benzenoid sulfonations for elimination of mixed sulfonates: meta- only or ortho- and para- derivatives only are formed.
3. For di- and poly-sulfonations of aryl compounds.
4. For direct sulfonation of aliphatics.
5. For sulfonations in the presence of a solvent, thus eliminating the removal of H_2SO_4 necessary when oleum is the agent.
6. For formation of addition compounds with amines, valuable in organic synthesis.

Sulfuric Anhydride exists in three chemically equivalent physical modifications as indicated by data below. General Chemical's stabilized product is almost entirely Gamma-Form and its partially stabilized product is largely Beta-Form.

PROPERTY	GAMMA-FORM	BETA-FORM	ALPHA-FORM
Description	Ice-Like	Asbestos-Like	Asbestos-Like
Equilibrium Melting Point (°C):	16.8	32.5	62.3
Density (20°C)	1.9255	—	—
Sp. Ht. (cals/gm) (20°C)	0.77	—	—
Ht. of Fusion (cals/mol)	1,800	2,900	6,200
Ht. of Sublimation (cals/mol)	11,900	13,000	16,300
Ht. of Dilution (cals/mol)	40,340	—	—
Vapor Pressure (mm.)			
0°C	45	32	5.8
25	433	344	73
50	950	950	650
75	3,000	3,000	3,000

GENERAL CHEMICAL COMPANY
40 RECTOR STREET, NEW YORK 6, N. Y.

Sales and Technical Service Offices in principal cities from coast to coast

*Trade Mark, General Chemical Company

Red, purple lake, kgs.....lb. 1.60 - —
Scarlet ink toner, kgs., works. lb. .55 Nom.
Spanish oxide, grade 1, c.l., bbls..lb. .05½- .06
Toluidin toner, alizarin lake, kgs., works..lb. 1.25 - —
MNPT maroon toner, kgs., works..lb. 3.25 - —
Turkey, bbls., works.....lb. .14½- —
Tuscan, bbls., E. St. L.....lb. .11 - —
Venetian, 15%, bgs., works...lb. .02¾- —
20%, bgs., works.....lb. .03 - —
25%, bgs., works.....lb. .03¼- —
30%, bgs., works.....lb. .03½- —
35%, bgs., works.....lb. .03¾- —
40%, bgs., works.....lb. .04 - —
Vermillion, Amer., bbls.....lb. .22¼- .48
Quicksilver, bbls. .....lb. 2.60 - 2.65
Red precipitate, NF, powd., fib. dms..lb. 2.48 - 2.50
Red saunders wood, grd., bbls.lb. .35 - —
Resorcinol, tech., dms., works.lb. .68 - —
USP, cryst., dms., works....lb. 1.70 - —
Rhatany root, bgs.....lb. .13 - .14
Rhubarb, whole, cs.....lb. 1.30 - 1.35
powd., bbls.....lb. 1.40 - 1.45
Riboflavin, bots. .....kilo.200.00 - —
Rice bran concentrate, dms., Cedartown, Ga., or Emeryville, Calif., seller's option. lb. .79 - —
Rochelle salt, gran., powd., bbls., 5,000 lbs., 1 ship't..lb. .34½- —
smaller lots.....lb. .35 - —
Rose flowers, pale, bls.....lb. .25 - .26
Rosemary flowers, bls.....lb. 1.55 - 1.65
Leaves, French, bls.....lb. .13 - .14
Portuguese, bls. .....lb. .08½- .09
Spanish, bls. .....lb. .12½- .13

Rosin, gum (see Naval Stores, Protective Coatings market).
Wood, B (resin), dms., c.l., works..100 lbs. 6.00 - —
FF, dms., c.l., works.100 lbs. 7.50 - —
G, H, I, dms., c.l., works.. 100 lbs. 8.80 - —
K, dms., c.l., works..100 lbs. 8.80 - —
M, dms., c.l., works..100 lbs. 8.85 - —
N, dms., c.l., works..100 lbs. 8.90 - —
WG, dms., c.l., works.100 lbs. 8.95 - —
WW, dms., c.l., works.100 lbs. 9.00 - —
X, dms., c.l., works..100 lbs. 9.10 - —
Rotenone, bbls., works.....lb.12.05 -14.50
extract, liq., dms., works..... per unit. 1.15 - —
powder (see Cube root).
Rottenstone, bgs., c.l., mines.. ton.25.50 - —
l.c.l., mines.....ton.37.50 - —
Rue, bls. .....lb. .45 - .46

S

Sabadilla seed, powd., bbls....lb. .35 - .70
activated, ground with lime, bbls..lb. .35 - .50
Saccharin, insoluble and soluble, 1,000 lbs. and up...lb. 1.30 - 1.35
smaller lots .....lb. 1.40 - 1.60
Saffron, Mexican, bls. .....lb. 1.60 - 1.65
Spanish, USP, tins.....lb.32.00 -32.00
Safrol, cns.....lb. 1.10 - 1.45
Sage, Cyprus, good, bls.....lb. .22 - .23
futures .....lb. .18 - .19¼
Dalmatian, bls. .....lb. .33 - .34
Greek, ¼s. .....lb. .29 - .29½
Palestine, bls. .....lb. .16 - .16½
Spanish, bls.. .....lb. .15 - .15½
Syrian, bls. .....lb. .25 - .25½
Sago flour, bgs.....lb. .07 - .07½
Salicin, bots., ¼ lbs. .....lb. No stocks.
cns., 25 lbs. .....lb. No stocks.

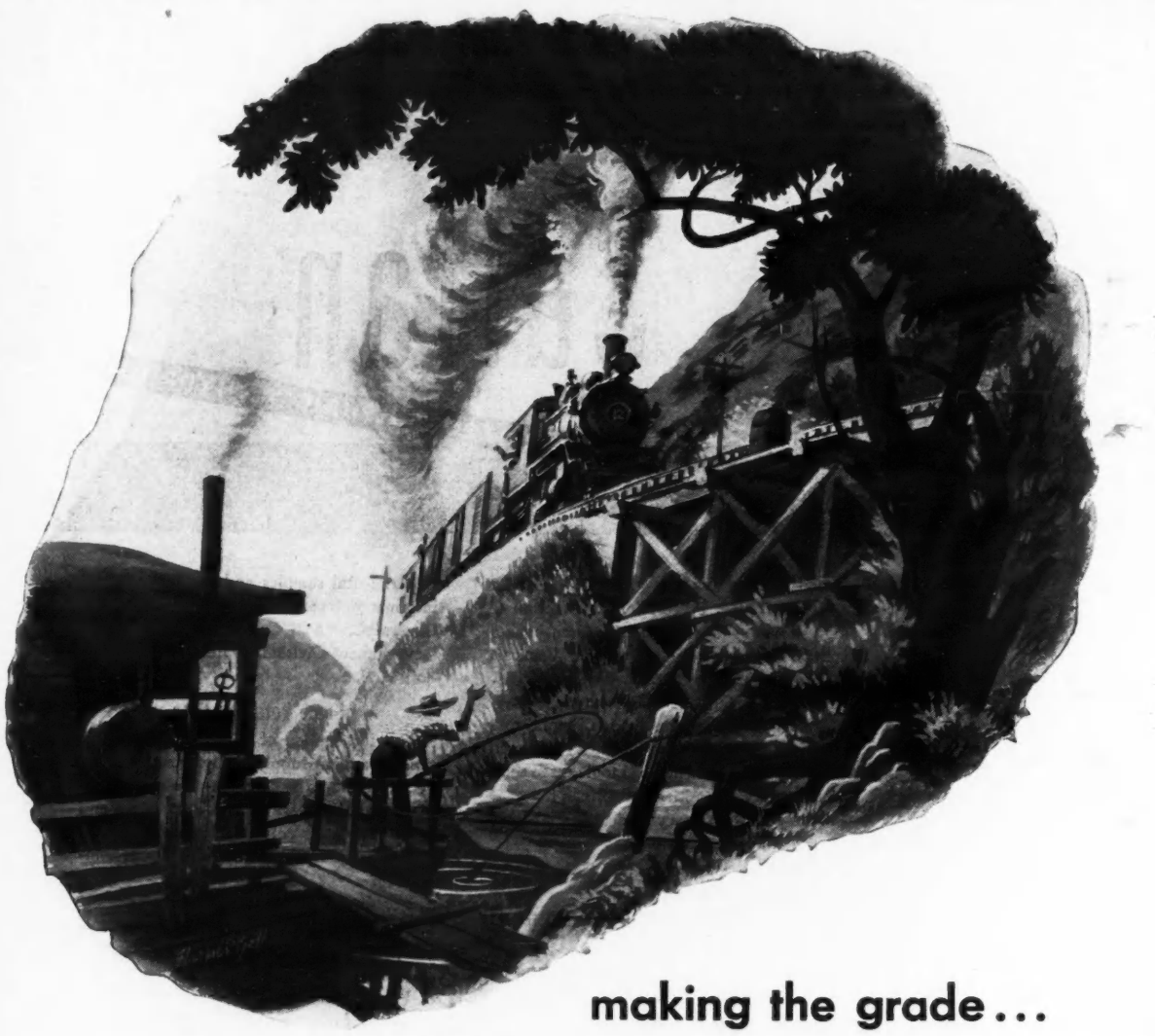
Saligenin, dms., works.....lb.15.00 -20.00
Salol, gran., bbls., kgs.....lb. .90 - —
fib. dms. .....lb. .85 - .86
Powdered salol, 10c. higher.
Salt, rock, bgs., c.l.....ton.15.00 - —
l.c.l., bgs. .....ton.20.00 - —
vacuum, common, fine, bgs., c.l..ton.16.00 - —
l.c.l., ...ton.20.40 - —
Saltcake, dom., bulk, works.ton.20.00 -26.00
Chrome (see Chrome cake).
Saltpeter, dbl. ref., gran., bbls., 10 ton lots..100 lbs. 6.20 - —
smaller lots .....100 lbs. 6.55 - 9.00
powd., bbls., 10-20 ton lots.. 100 lbs. 6.20 - —
smaller lots .....100 lbs. 6.55 - 9.00
Sanguinarize nitrate, bots....oz. 5.75 - —
Santonin, cryst., powd., cns.kilo.170.00 -185.00
Sapenin, No 1, cns.....lb. 1.75 - 1.90
No. 2, cns. .....lb. 1.40 - —
Sarsaparilla root, dom., bls...lb. .45 - .50
Honduras, bls..... .....lb. .55 - .58
Mexican, bls. .....lb. .60 - .65
Sassafras bark, ord., bls.....lb. .45 - .50
select, bls. .....lb. .65 - .70
Savory, Spanish, bls. .....lb. .21 - .21¼
Saw palmetto berries, bgs....lb. .24 - .25
Scammony resin, lump, cns...lb. 1.80 - —
powd., cns. .....lb. 1.85 - —
Root, bgs. .....lb. .10 - .15½
Schaeffer's salt, bgs. .....lb. .08 - —
Seidlitz mixture, bbls., 5,000 lbs., 1 shipment..lb. .27½- —
smaller lots .....lb. .28¼- —
kegs, 5,000 lbs., 1 shipm't..lb. .28¼- —
smaller lots .....lb. .28¾- —
Selenium, pwd., cns., 10-lb. lots.. lb. 1.85 - —
cs., 1,000-lb. lots.....lb. 1.75 - —
Senega root, bls.....lb. 2.65 - 2.75

Senna leaf, Alex., half-leaf, bls. lb. .27 - .28
siftings, bgs.....lb. .24 - .26
Tinnevelly, No. 1, bls.....lb. .25 - .27
2, bls.....lb. .23 - .23
3, bls.....lb. .21 - .22
powd., bbls., bgs.....lb. .24 - .30
Pods, bls.....lb. .53 - .54
Serpentaria root, bls.....lb. No stocks
Shellac, bleached, benedry, bbls., 1,500-lb. lots..lb. .71 - —
Boston .....lb. .73 - —
Chicago .....lb. .73¾- —
Pacific coast.....lb. .74¼- —
refined, bbls., 1,000-lb. lot. lb. .73¾- —
Boston .....lb. .73¾- —
Chicago .....lb. .73 - —
Pacific coast.....lb. .69 - —
Benedry shellac sales of less than 1,000 lbs., at following additions to prices: (1) packed in bgs., ¼c. per lb.; (2) bbls., 1c. more; (3) kgs., 3c. more.
Superfine, 100 bgs., Boston, N.Y. lb. .72 - .79
Chicago .....lb. .73¾- .79
Pacific coast.....lb. .76 - .76
TN, 100 bgs., Boston, N. Y.lb. .67 - .68
Chicago .....lb. .67¼- .69¾
Pacific coast.....lb. .70 - .71
Shellac in c., 2c. higher. Shellac sales 1 bg. or 1 c., 5c. additional; 1 to 9 bgs. or cs., 3c. more; 10 to 60 bgs., cs., 1c. more.

Silica, amorph., dry-grd., 325 mesh, bgs., c.l., Ill. works. ton.17.00 - —
l.c.l. works.....ton.20.00 - —
400 mesh, bgs., c.l., works. ton.18.00 - —
l.c.l., works.....ton.19.00 -22.00
wet-grd., 325 mesh, bgs., c.l., works..ton.18.00 - —
l.c.l., works.....ton.21.00 - —
400 mesh, bgs., c.l., works. ton.20.00 - —
l.c.l., works.....ton.25.00 -32.00
96%-98%, 325 mesh, bgs., c.l., works..ton.20.00 - —
l.c.l., works.....ton.21.50 -32.00
99%, 325 mesh, bgs., c.l., works..ton.20.00 - —
l.c.l., works.....ton.22.00 -35.00
hard-quartz, 99½%, 325 mesh, bgs., c.l., works..ton.15.50 - —
l.c.l., works.....ton.18.00 - —
140 mesh, bgs., c.l., works.. ton.11.00 - —
l.c.l., works.....ton.16.00 - —
Silicon tetrachloride, tech., dms., c.l., works..lb. .15½- —
l.c.l., works.....lb. .16½- .27
Silver bullion.....oz. .75¾- —
Cyanide, cns., 100 ozs.....oz. .75½- —
Nitrate, 250-oz. bots., 2,500-oz. lots..oz. .49¾- —
1,000-oz. lots.....oz. .50 - —
500-oz. lots.....oz. .50¼- —
single 250-oz. bot.....oz. .50½- —
Neucleinate, USP, bots., dms., 1,000-oz. lots..oz. .890 - —
Proteinate, USP, bots., dms., 1,000-oz. lots..oz. .825 - —
Simarubra bark, bls.....lb. .87 - .90
Skullcap, Eastern, bls.....lb. .85 Nom.
Western, bls. .....lb. .30 - .35
Skunk cabbage root, bls.....lb. .45 - .50
Slate flour, bgs., c.l., works..ton.11.00 -12.00
l.c.l., ex whse.....ton.20.00 - —
Sloe berries, bgs.....lb. .40 - .41
Smalt, black, cns.....lb. .95 - .96
Blue, cns.....lb. .97 - .99½
Snakeroot, Canada, bls.....lb. .63 - .65
Soapbark, bls.....lb. .27 - .28
crushed, bls., bbls.....lb. .32 - .33
cut, imp., bbls.....lb. .32 - .35
powd., rbls.....lb. .30 - .31
Soda acetate, anhyd., dms., dlvd. lb. .09½- .10
cryst., NF, bbls., kgs.....lb. .14 - .16
tech., 60%, l.c.l., dlvd....lb. .05½- .06
Alginate, refined, water-soluble, bbls., works..lb. .79 - —
semi-refined, bbls., works..lb. .42 - —
white, powd., dms.....lb. 1.50 - 1.60
Alkylbenzene sulphate, dms., works..lb. .15 - —
Aluminate, for water treat., bgs., c.l., works..100 lbs. 7.50 - —
l.c.l., works.....100 lbs. 8.40 - —
other uses, bgs., c.l., works.. 100 lbs. 7.00 - —
l.c.l. .....100 lbs. 7.80 - 8.00
Antimoniate, bbls., dlvd.....lb. .10 - .10½
Arsenate, dealers, dms., c.l., works..lb. .12 - —
l.c.l., works.....lb. .13¼- .13½
Arsenite, grey, dms., dealers, c.l., works..lb. .10¾- —
l.c.l., works.....lb. .13¼- .13½
Soda arsenite, gray ¼c. higher in Chi., 2c. higher in Houston, Tex., and Palo Alto, Calif.

Ash, dense, 58%, bgs., c.l., 100 lbs. 1.23 - —
l.c.l., dlvd., zone 1.... 100 lbs. 2.62 - —
2 .....100 lbs. 2.73 - —
3 .....100 lbs. 3.13 - —
4 .....100 lbs. 3.73 - —
bbls., c.l., works, zone... 100 lbs. 1.68 - —
l.c.l., zone 1.....100 lbs. 3.02 - —
2 .....100 lbs. 3.15 - —
3 .....100 lbs. 3.53 - —
4 .....100 lbs. 4.13 - —
bulk, c.l., works...100 lbs. 1.08 - —
extra light, 58%, bgs., c.l.... 100 lbs. 1.30 - —
l.c.l., dlvd., zone 1.... 100 lbs. 2.85 - —
2 .....100 lbs. 2.99 - —
3 .....100 lbs. 3.15 - —
4 .....100 lbs. 3.75 - —
light, 58%, bgs., c.l..100 lbs. 1.20 - —
l.c.l., dlvd., Zone 1..... 100 lbs. 2.55 - —
2 .....100 lbs. 2.70 - —
3 .....100 lbs. 3.05 - —
4 .....100 lbs. 3.65 - —
bbls., c.l., works..100 lbs. 1.60 - —
l.c.l., dlvd., Zone 1.. 100 lbs. 2.65 - —
2 .....100 lbs. 3.10 - —
3 .....100 lbs. 3.45 - —
4 .....100 lbs. 4.05 - —
bulk, c.l.....100 lbs. 1.60 - —

Prices f.o.b. stock points in zones indicated. Minimum quantity 500 lbs. For less than 500 lbs., prices are ex-warehouse.
Soda ash sales zones are: (1) All States E. of Miss. R. and N. of south bound. of Ky. and Va.; also Ala., La., and Miss., S. of 31°, Tex. E. of 100°, S. of 31° Fla.; also Me., N. H., and Vt., in which there are special county zones: Davenport, Ia., and St. Louis; (2) Ark., E. of 96° Ga.; Iowa (except Davenport), Minn.; Mo. (except St. Louis), Neb. E. of 96°, N. C., S. C., Tenn. and Tex. N. of 31° and E. of 100° (except Wichita Falls); also Ala., La. and Miss. No. of 31°; (3) Ark. W. of 96°, Kans., Neb., W. of 96°, N. D., Okla., S. D., Tex., W. of 100° (including Wichita Falls excluding El Paso); (4) Ariz., Colo., Idaho, Mont., Nev., N. M., Utah, Wyo., and El Paso, Tex.



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Since the turn of the century Niagara has pioneered basic electro-chemical development in this country. This experience is reflected in Niagara product quality and also in the efficiency of the service that Niagara extends to customers seeking to blaze new trails to product improvement.

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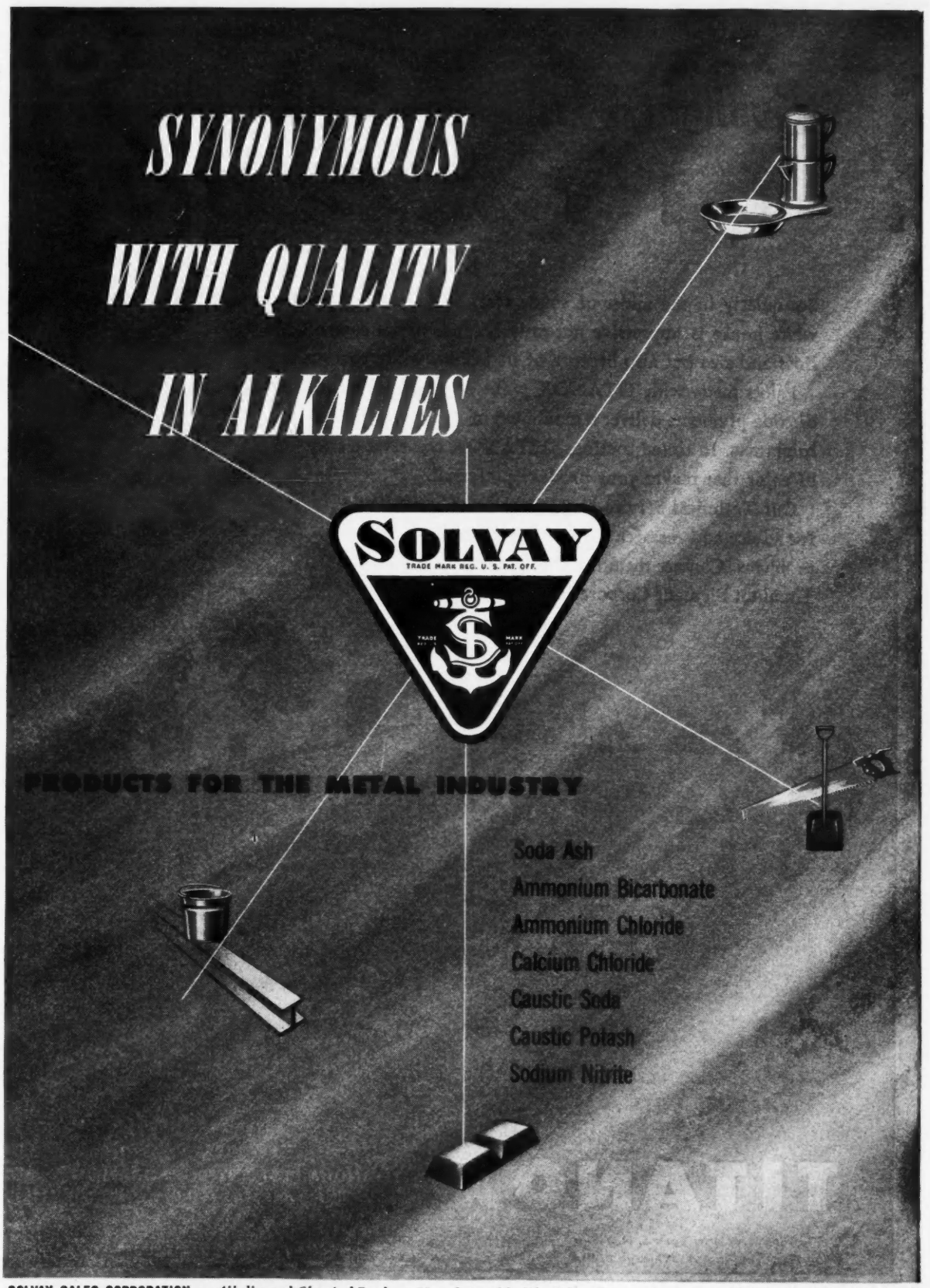
LIQUID CHLORINE · CAUSTIC POTASH
CARBONATE OF POTASH · PARADICHLOROBENZENE
CAUSTIC SODA · NIAGATHAL (TETRACHLORO PHTHALIC ANHYDRIDE)

Soda benzoate, tech., bbls., 2 tons or more..lb. .39 - —
smaller lots.....lb. .40 - .41
USP, dms., 2 tons or more..lb. .46 - —
smaller lots.....lb. .47 - .89
Bicarbonate, USP, gran., bgs., c.l., works..100 lbs. 2.25 - —
l.c.l. .....100 lbs. 2.57½ - 2.80
Bichromate, bgs., c.l., works..lb. .08¼ - —
l.c.l., works.....lb. .09⅝ - .09⅝
Soda bichromate, in bbls., ¼c. higher.
Bifluoride, bbls., c.l., frt. alld. E..lb. .11¼ - —
l.c.l., same basis.....lb. .13 - .14
kgs., same basis.....lb. .13½ - .14
Bisulphite, powd., bbls., c.l., works..100 lbs. 3.00 - 3.10
l.c.l., works.....100 lbs. 3.50 - 3.60
solut., 32°, bbls., c.l., works. 100 lbs. 1.30 - —
l.c.l., works.....100 lbs. 1.55 - —
30°, bbls., c.l., works.100 lbs. 1.35 - —
l.c.l., works.....100 lbs. 1.60 - —
38° bbls., c.l., works.100 lbs. 1.40 - —
l.c.l., works.....100 lbs. 1.65 - —
40°, bbls., c.l., works.100 lbs. 1.55 - —
l.c.l., works.....100 lbs. 1.80 - —
Bromide, USP, gran., bbls., 500 lbs., works..lb. .25 - —
dms., works .....lb. .35 - .36
Cacodylate, bots., dms.....lb. 8.50 -12.00
Carbonate (see Soda ash, Soda monohydrate, Soda sal).
Caustic, flake, powd., 76%, dms., c.l., works..100 lbs. 2.90 - 3.00
l.c.l., zone 1, dlvd..100 lbs. 4.25 - —
2, dlvd.....100 lbs. 4.40 - —
3, dlvd.....100 lbs. 4.75 - —
4, dlvd.....100 lbs. 5.35 - —
liquid, 50%, buyers' tanks, works, dry basis.100 lbs. 2.00 - —
sellers, tanks, works, dry basis..100 lbs. 2.10 - —
70%, seller's tanks, works, dry basis..100 lbs. 2.10 - —
solid, 70%, dms., c.l., works. 100 lbs. 2.50 - 2.75
l.c.l., zone 1, dlvd..100 lbs. 3.85 - —
2, dlvd..... 100 lbs. 4.00 - —
3, dlvd.....100 lbs. 4.35 - —
4, dlvd.....100 lbs. 4.95 - —
Prices f.o.b. stock points in zones indicated. Minimum quantity 500 lbs. For less than 500 lbs., prices are ex-warehouse.
Caustic soda zones are same as soda ash.
Chlorate, cryst., bgs., c.l., works..lb. .06¼ - —
l.c.l., works.....lb. .06½ - —
powd., kgs., c.l., works....lb. .06½ - —
l.c.l., works.....lb. .07 - .08½
Chloride (see Salt).
Chromate, bgs., c.l., works, frt. equald..lb. .09½ - —
l.c.l., works, frt. equald..lb. .09¾ - .10
Soda chromate in bbls., ¼c. higher.
Citrate, USP VIII, bbls.....lb. .18½ - —
dms.....lb. .19¾ - .20½
USP XII, gran., bbls.....lb. .24 - —
dms.....lb. .25 - .30
powd., bbls.....lb. .24½ - —
dms.....lb. .25½ - .29½
Cyanide, 96-98%, dms.....lb. .14½ - .15
Diacetate, 32-35% acidity, bbls., works, dlvd..lb. .09½ - .10½
anhydrous, dms., works....lb. .11½ - .13
Fluoride, white, 90%, bbls., c.l., works..lb. .07 - —
l.c.l., works.....lb. .08 - —
95%, bbls., c.l., works...lb. .07¼ - —
l.c.l., works.....lb. .08¼ - —
Soda fluoride prices at Los Angeles are f.a.s. works.
Formate, bgs., c.l., works..lb. .0625 - —
l.c.l., works .....lb. .0680 - —
Glutamate, monobasic, kgs..lb. 1.46 - 1.48
Glycerophosphate, N.F., cryst., bbls..lb. 1.90 - —
powder, bbls.....lb. 1.95 - —
solution, 75%, cbys.....lb. 1.10 - —
50%, cbys.....lb. .85 - —
Hydrosulphite, dms., c.l., frt. alld..lb. .18½ - .19
l.c.l., frt. alld.....lb. .19 - .20
Hydroxide, USP, sticks, dms.lb. .24 - .25
Hypophosphite, NF, cns.....lb. .67 - .70
Hyposulphite, cryst., bgs., c.l., works, frt. equald..... 100 lbs. 2.25 - —
l.c.l., same basis.100 lbs. 2.50 - —
pea, cryst., bgs., c.l., works. 100 lbs. 2.60 - —
Soda, hyposulphite, crystals, in bbls., 20c. higher; pea crystals, dms., 30c. higher.
USP, cryst., bbls. .....lb. .10 - .12
Iodide, dms., jars.....lb. 2.72 - 2.83
Mandelate, dms.....lb. 3.25 - 3.35
Metaborate, gran., bgs., c.l., works..ton.90.50 - —
ton lots, works.....ton.108.00 - —
less ton lots, works...ton.113.00 - —
Ammonia metaborate in bbls., $20 per ton higher.
Metanilate, bgs.....lb. .43 - —
Metasilicate, anhyd., bbls., c.l., works..100 lbs. 4.00 - —
gran., bgs., c.l., works.100 lbs. 3.00 - —
l.c.l., New York....100 lbs. 3.90 - 4.35
bbls., c.l., works....100 lbs. 3.40 - —
l.c.l., New York....100 lbs. 4.30 - 4.75
Methylate, bots., works....lb. 1.00 - —
cns., works .....lb. .55 - .60
dms., works .....lb. .45 - .60
Molybdate, anhyd., kgs., works. lb. .47 - —
crystals, bgs., works.....lb. .60 - —
Monohydrate, bgs., c.l..100 lbs. 2.90 - —
works .....100 lbs. 2.45 - —
Naphthionate, bbls. .....lb. .46 - —
Nitrate, dom., crude, 100-lb. bgs., c.l., works..ton.35.50 - —
bulk, c.l., works....ton.32.00 - —
refd., gran., bbls., 10 tons.. 100 lbs. — - —
smaller lots.....100 lbs. — - —
imp., 100-lb. bgs., c.l., Atl. Gulf, Pac. whse..ton.41.50 - —
bulk, same basis.....ton.38.50 - —
Nitrite, 96-98%, bbls., c.l., works, frt. equald..lb. .06¾ - —
West coast, ports.100 lbs. 8.00 - 8.05
L.c.l., dlvd. .....100 lbs. 8.90 -11.00
Orthosilicate, anhyd., bbls., c.l., works, frt. equald..100 lbs. 4.00 - —
l.c.l., same basis..100 lbs. 5.45 - 5.60
flake, 1bls., c.l., works.100 lbs. 3.10 - —
l.c.l., dlvd. .....100 lbs. 4.20 - 4.25
Oxalate, neut., bgs., works..lb. .19 - —
Pantothenate, dextrorotary, 100-gram bots..per gram. .19 - —
Pentachlorophenate, briquets, bgs., works, frt. equald..lb. .17 - .18
powd., bgs., c.l., works, frt. equald..lb. .18 - .18½
l.c.l., works, frt. equald.lb. .17 - —
kgs., L.c.l., works, frt. equald. lb. .19 - —
Perborate, NF, bbls., c.l., works. lb. .14¾ - —
l.c.l., works .....lb. .15¼ - —

Soda peroxide, dms., c.l., dlvd. E. of Miss..lb. .14 - —
smaller lots .....lb. .17 - —
Phosphate, dibasic, tech., anhyd., bgs., c.l., works.. 100 lbs. 6.25 - —
l.c.l., works.....100 lbs. 6.75 - 7.00
cryst., bgs., c.l., works.. 100 lbs. 3.50 - —
l.c.l., works....100 lbs. 3.75 - 3.90
USP XII, dried, bbls., dms., works..lb. .159 - —
monobasic, anhydrous, bgs., works..100 lbs. 7.25 - 8.25
l.c.l., works.....100 lbs. 7.65 - 9.00
tribasic, anhydrous, bgs., c.l., works, frt. equald..100 lbs. 7.00 - —
l.c.l., same basis.100 lbs. 7.50 - 8.00
cryst., bgs., c.l., works.... 100 lbs. 3.50 - —
l.c.l., same basis.100 lbs. 3.90 - —
kgs., c.l., works...100 lbs. 4.20 - —
l.c.l., works....100 lbs. 4.40 - —
USP (see Sodium phosphate, dibasic). Soda phosphate in bbls. 40c. higher.
Prussiate, yellow, bgs.....lb. .12 - —
bbls. .....lb. .12¼ - —
Pyrophosphate, acid, bgs., works, frt. equald..100 lbs.10.60 -11.25
ferric, dms., 10,000 lbs., works..lb. .22 - —
smaller lots, works.....lb. .23½ - —
tetrabasic, anhydrous, bgs., c.l., works, frt. equald. 100 lbs. 6.00 - —
Ricinoleate, tech., bbls.....lb. No stocks
Sal, bgs., c.l.....100 lbs. 1.85 - —
works, c.l. .....100 lbs. 1.10 - —
bbls., c.l. .....100 lbs. 1.40 - —
works, c.l. .....100 lbs. 1.20 - —
Salicylate, dms.....lb. .52 - .55

Soda sesquicarbonate, bgs., c.l., works..100 lbs. 1.50 - —
bbls., c.l., works.....100 lbs. 1.70 - —
l.c.l., zone 1, dlvd..100 lbs. 2.70 - —
2, dlvd.....100 lbs. 2.85 - —
3, dlvd.....100 lbs. 3.10 - —
4, dlvd.....100 lbs. 3.50 - —
Soda sesquicarbonate l.c.l. prices zones are same as those for soda ash.
Sesquisilicate, bbls., c.l., works. 100 lbs. 3.90 - —
l.c.l., dlvd. .....100 lbs. 5.15 - 5.80
Silicate, 40°, turbid, dms., c.l., works..100 lbs. .95 - 1.15
l.c.l., works.....100 lbs. 1.20 - 1.30
tanks, works.....ton.15.00 - —
52°, turbid, dms., c.l., works, 100 lbs. 1.55 - —
l.c.l., works.....100 lbs. 1.80 - 2.00
tanks, works.....ton.27.00 - —
Silicofluoride, bbls., c.l., works. lb. .07½ - —
l.c.l., works.....lb. .08½ - —
Stannate, dms., works, frt. alld. E..lb. .32½ - .33½
Stearate, bbls., works.....lb. .19 - .24
Sulphate, NF, dried, powd., bbls..lb. .10 - .10½
tech., anhyd., bgs., c.l., works. 100 lbs. 1.70 - —
l.c.l., works.....100 lbs. 1.95 - 2.20
cryst. (see Glauber's salt).
USP, cryst., gran., bbls....lb. .07 - .07½
Sulphide, cryst., bbls., c.l., works..100 lbs. 2.90 - —
l.c.l., dlvd.....100 lbs. 3.65 - 3.90
solid, bbls., c.l., works.100 lbs. 3.65 - —
l.c.l., dlvd.....100 lbs. 4.15 - 4.50
Sulphite, cryst., bgs., c.l., works..100 lbs. 2.10 - —
l.c.l., works.....100 lbs. 2.35 - —
bbls., c.l., works....100 lbs. 2.30 - —
l.c.l., works.....100 lbs. 2.55 - —

Soda sulphite, powd., bbls., c.l., works..100 lbs. 5.25 - —
l.c.l., works.....100 lbs. 5.50 - 6.00
Sulphocarbolate, USP IX, gran., bbls., dms..lb. .28 - .33
powd., bbls.....lb. .30 - .35
Sulphocyanide, CP, dms.....lb. .95 - .65
Sulphohydrate, flake, 70-72%, dms., c.l..lb. .05 - —
l.c.l. .....lb. .05½ - —
liquid, 88%, tanks, basis 100%, works..lb. .04 - —
Sulphoxylate, formaldehyde, dms., c.l., works, frt. alld..lb. .17½ - —
Sulphoricinoleate, bbls.....lb. .12 - —
Thiocyanate (see Soda, sulphocyanide).
Tripolyphosphate, bgs., works, frt. equald..lb. .07¼ - .08½
Thiosulphate (see Soda hyposulphite).
Tungstate, tech., bgs.....lb. 1.35 - —
Soda-ammonia phosphate, bbls., works, frt. equald..lb. .23 - —
Soda-cinchophen, bots., dms., works..lb. 5.00 - 5.10
Soda-formaldehyde sulphoxalate, stand. cont., 125-250 lbs..lb. .19 - .22
Soda-sulphadiazin, USP, dms., works..lb.10.50 -10.60
Soda-sulphamerazin, dms., works. lb.10.50 -10.60
Soda-sulphapyridin, powd., bots., dms., works..lb. 5.00 - 5.30
Soda-sulphathiazole, USP, dms., works..lb. 3.00 - 3.25
Solvent naphtha, dms., wks..gal. .28 - —
tanks, E. of Omaha, frt. alld. gal. .23 - —
Minnequa, Colo.....gal. .26 - —



SOLVAY SALES CORPORATION • *Alkalies and Chemical Products Manufactured by The Solvay Process Company* • 40 Rector Street, New York 6, N. Y.

Solvent naphtha, high-flash, coal-tar, dms., works..gal. .32 - —
tanks, frt. alld. E. of Omaha to 2c. per gal.. gal. .27 - —
Sorbitol, com'l, dms., c.l., works. lb. .23½- —
l.c.l., works..lb. .24 - .33
Soybean protein, alpha, bgs., 40,000 lbs., works..lb. .28 - —
20,000 lbs., works..lb. .29½-
smaller lots, works..lb. .28½- .33
Sparteine sulphate bots., cns.,os. 2.90 - 3.20
Spearmint leaves, bls..lb. .52 - .53
Spikenard root, bls..lb. .50 - .55
Spruce extract, liq., reg., tanks, works..lb. .01¾- —
pwd., super, bgs., c.l., wks.lb. .05¾- —
Squaw vine, bls..lb. .55 - .60
Squill, red, fortified, powd, bbls., bxs..lb 1.00 - —
White, bls..lb .10 - .12
powd., bbls., bxs..lb .18 - .20
St. Ignatius beans, bgs..lb No stocks
St. John's bread, edible, bls..lb .12 - .18
Starch, corn, pearl, bgs., c.l., 100 lbs. 4.22 - —
l.c.l. ..100 lbs. 4.37 - —
Chicago, c.l.....100 lbs. 3.77 - —
powd., bgs., c.l.....100 lbs. 4.33 - —
l.c.l. ..100 lbs. 4.48 - —
Chicago, c.l. .....100 lbs. 3.88 - —
Cornstarch prices above are for paper bags; cotton bags are 20c. higher.
Potato, bgs., c.l.....lb. .07¾- —
l.c.l. .....lb. .08½- —
Rice, bgs., c.l.....lb. No stocks
Sweetpotato, bgs.....lb. No stocks
Wheat, bgs.....lb. 08¼- .0[illegible]

Stavesacre seed, bgs.....lb. .60 - .61
Stearic, oleic (see Oleostearin).
Stillingia root, bls.....lb. .45 - .50
Stoneroot, bls.....lb. 07½- .08
Storax, os.....lb. 1.00 - 1.10
Stramonium leaves, bgs.....lb. .20 - .25
Seed, bgs.....lb. .20 - .21
Streptomycin, hospitals.....gram. 4.50 - —
wholesalers.....gram. 3.84 - —
Strontium bromide, NF, cns., dms..lb. .52 - .55
Carbonate, 90%, bbls.....lb. .14 - .16
99%, bbls.....lb. .22 - .25
Chloride, tech., bbls.....lb. .22 - .24
mesh 90%, bbls., works.ton.85.00 - —
Chromate, bbls., kgs., Phila.lb. .40 - .42
Iodide, jars, 25 lbs.....lb. 3.00 - 3.06
Lactate, dms.....lb. 1.30 - 1.35
Nitrate, bbls., c.l., works....lb. .07¾- —
l.c.l., works.....lb. .08¼- .09¾
Oxalate, bbls., works.....lb. .55 - .60
Salicylate, NF, dms.....lb. 1.10 - 1.13
Sulphate, nat., air-floated, 325 mesh 90%, bbls., works.ton.55.00 - —
Strontium-calcium sulphide, phosphorescent, dms., works..lb 2.50 - 2.85
Strophanthin, bots.....os.30.00 -30.00
Strophanthus seed, Kombe, bgs. lb 2.25 - 2.50
Strychnine, NF, powd., cns., 100 ozs..oz. 1.25 - —
Sulphate, USP, powd., cns., 100 ozs..oz. 1.00 -
Styrolyl acetate, bots.....lb. 2.50 - 2.10
Sucrose octa-acetate, denat., bbls., l.c.l. works..lb. .50 - —
tech., bbls., l.c.l., works...lb. .45 - —
Sugar coloring (see Caramel coloring).
Sugar of milk (see Milk sugar)
Sulphadiazine, USP, dms., works lb 9.00 - 9.10

Sulphaguanidin, dms. works..lb. 4.50 - 4.60
Sulphamerazin, dms., works...lb. 9.00 - 9.10
Sulphanilamide, USP, powd., bots., works..lb. 1.05 - 1.10
Sulphanilamide, 80-90 mesh, 10c. higher.
Sulphapyridin, powd., bots., tins, works..lb. 5.00 - 5.50
Sulphathiazole, USP, powd., dms., works..lb. 3.00 - 3.30
Sulphonethylmethane, kgs.....lb. 6.75 - 6.85
Sulphonmethane, kgs.....lb. 5.25 - 5.35
Sulphur, crude, c.l., bulk, mines, contract..long ton.16.00 - —
vessels, Gulf ports, contract..long ton.17.50 - —
export.....long ton.20.00 - —
flour, comm'l 99½% bgs., c.l., works..100 lbs 1.80 - —
l.c.l., works.....100 lbs 2.15 - —
precipitated, USP, bbls., kgs.lb. .18 - .36
refined, flour, extra fine, bgs., c.l., works..100 lbs. 3.15 - —
l.c.l., works.....100 lbs. 3.50 - 3.90
heavy, bgs., c.l., works 100 lbs. 2.85 - —
l.c.l., works.....100 lbs. 3.20 - 3.60
light, bgs., c.l., works.100 lbs. 2.95 - —
l.c.l. works.....100 lbs. 3.30 - 3.60
flowers, USP, bgs., c.l., works. 100 lbs. 3.30 - —
l.c.l., works.....100 lbs. 3.65 - —
Refined sulphur flowers in bbls., 35c. higher.
rock bbls., c.l., works.. 100 lbs. 2.45 - —
l.c.l., works....100 lbs. 2.80 - —
roll, bbls., c.l., works.100 lbs. 2.65 - —
l.c.l., works.....100 lbs. 3.00 - 3.40
rubbermakers', bgs., c.l. wks. 100 lbs. 2.15 - 2.60

Sulphur chloride, 25-gal. dms., c.l., works..lb. .06 - .0[illegible]
l.c.l., works.....lb. .04 - .0[illegible]
10-gal. dms., c.l., works..lb. .07 - .0[illegible]
l.c.l. .....lb. .08 - .0[illegible]
Dioxide, liquid, com'l, cyls., c.l., works..lb. .035 - -
l.c.l. .....lb. .035 - -
multi-unit cars, works..lb. .06 - -
tanks, works.....lb. .044 - -
refrigeration, cyls., l.c.l., works..lb. — - -
Iodide, bots., jars.....lb. 3.90 - 4.1[illegible]
Sumac extract, No. 1, bbls....lb. .16½- -
No. 2, bbls.....lb. .09 - -
crystals, bbls.....lb. .40 - -
stainless, bbls.....lb. .11 - .1[illegible]
Superphosphate, pulverized, run-of-pile under 22% a.p.a. Baltimore..unit-ton. .74 - -
Baltimore..unit-ton. .76 - -
Florida .....unit-ton. .85 - .8[illegible]
others .....unit-ton. .87 - .8[illegible]
Delivery points, Ariz., Calif., Colo., Id[illegible] Kans., Nev., N. M., Ore., Utah, Was[illegible] $3½c., per unit-ton plus frt. charges fr[illegible] Anaconda, Mont., in excess of $3.03 [illegible] ton; guaranteed 18, 19 or 20% a.p.a., [illegible] per unit-ton higher.
triple, 45% or more a.p.a., bulk, producing point, Florida. unit-ton. .65 - -
South Carolina..unit-ton. .75 - -
Tennessee .....unit-ton. .80 - -
Other States and D.C., 62c. per un[illegible] ton plus frt. charge for 45% fr[illegible] E. Tampa, Fla.
Superphosphate, gran., 2c. per unit-ton higher than pulverized.
Sweet basil, bls.....lb. 1.10 - 1.1[illegible]

T

Talc, dom., ordinary, grd., bgs., c.l., works..ton.14.00 -24.0[illegible]
l.c.l., works.....ton.16.50 -26.0[illegible]
Calif., bgs., c.l., wks..ton.22.00 -26.0[illegible]
Pennsylvania, bgs., c.l., works..ton.11.00 -13.0[illegible]
l.c.l., works.....ton.12.50 -14.0[illegible]
Vermont, bgs., c.l., works. ton.14.00 - -
l.c.l., works.....ton.17.50 - -
fibrous, grd., off-color, New York, bgs., c.l., works. ton.15.00 - -
325 mesh, 98-94%, bgs., c.l., works..ton.17.50 - -
98 - 99.5%, bgs., c.l., works..ton. No prices
99.55-99.95% bgs., c.l., works..ton. No prices
impr., Canada, bgs., c.l.....ton.26.00 -44.0[illegible]
Tallow, inedible, extra, loose..lb. .22¾- -
special, loose.....lb. .22½- -
sulphonated, 25%, dms.....lb. .09 - .1[illegible]
50%, dms.....lb. .13 - .1[illegible]
Tamarind, bbls.....lb. .12 - .1[illegible]
Tankage, animal, feed grade, 9-11% ammon., bulk, unit-ton. 7.50 - -
Chicago .....unit-ton. 7.50 - -
fert. grade, 9% ammon., 10% b.p.l., bulk..unit-ton. No stocks
10-11% ammon., 15% b.p.l., bulk, Chicago..unit-ton. No stocks
Tansy leaves, bls.....lb. .15 - .1[illegible]
Tapioca flour, bgs.....lb. .07¾- .1[illegible]
Java, bgs.....lb. No stocks
Tar acid oil, 15-18%, dms., c.l., works..gal. .25 - -
l.c.l., works.....gal. .28 - -
25%, dms., c.l., works..gal. .41 - -
l.c.l., works.....gal. .44 - -
Tar, pine (see Pinetar).
Tara pods, c.l., ex dock U. S. ports..long ton. No price
powd., c.l., same basis.long ton. No price
Tarragon herb, bgs.....lb. .60 - .6[illegible]
Leaves, bgs.....lb. 1.20 - 1.3[illegible]
Tartar emetic, tech., gran. or powd., bbls., kgs..lb. .44 - -
dms.....lb. .44½- .4[illegible]
Tartar emetic, USP, powd., bbls., dms., kgs..lb. .49 - .5[illegible]
Terpin hydrate, comr., bbls., c.l., lb .24½- -
lb. .25 - .2[illegible]
USP, cryst., bbls., dms....lb. .70 - .7[illegible]
powd., bbls., dms.....lb. .75 - .8[illegible]
Terpineol, Alpha (see A).
com'l, dms., c.l., South.....lb. .12½- -
l.c.l., South.....lb. .14 - -
tanks, South.....lb. .12 - -
pure, dms.....lb. .26 - .2[illegible]
extra, dms.....lb. .63 - .7[illegible]
Terpinglycol ether, dms. (extra), c.l., works..lb. .19½- -
l.c.l., works.....lb. .20 - -
tanks, works.....lb. .19 - -
Terpinyl acetate, extra, cns., dms. lb. .68 - 1.0[illegible]
prime, cns., dms.....lb. .62 - .6[illegible]
Terra alba (see Gypsum).
Tetrachloroethane, dms., works, lb. .60 - .6[illegible]
Tetrachloroethylene, NF VI, 55-gal. dms., works..lb. .30 - .3[illegible]
smaller dms., works.....lb. .32½- .3[illegible]
tech. (see Perchloroethylene).
Tetraethyl orthosilicate, dms., works..lb. .65 - -
Tetrapotassium phosphate (see Potash phosphate).
Tetrasodium pyrophosphate (see Soda pyrophosphate).
Thallium sulphate, 99%, bots., works..lb.20.00 - -
Theobromine, dms., 25-lb. lots.lb. 3.75 - -
smaller lots.....lb. 3.95 - 4.2[illegible]
Thiamine hydrochloride, dms., 100 grams or more..kilo.160.00 - -
Thiocarbanilide, dms.....lb. .34 - -
Thiouracil, dms., works.....lb. 5.50 - 5.6[illegible]
Thiourea, CP, dms.....lb. .55 - .6[illegible]
Thorium nitrate, cs., works..lb. 2.00 - -
Thyme, French, bgs.....lb. .17 - .1[illegible]
futures, bgs.....lb. .15½- .1[illegible]
Spanish, bls.....lb. .12 - .1[illegible]
Thymol, cns.....lb. No prices
Iodide, dms.....lb. 4.25 - -
Timbo root (see Cube root).
Tin crystals, bgs., bbls., works. lb. .48 - -
Metal.....lb. .70 - -
Bolivian.....lb. .66½- -
Straits.....lb. .70 - -
Oxide, bbls.....lb. .72 - -
Tetrachloride, anhyd., dms., works..lb. No stocks
Titanium dioxide, chalk resistant, bgs., c.l., dlvd..lb. .15½- -
l.c.l., dlvd.....lb. .15¾- -
nonchalking, bgs., c.l., dlvd. E..lb. .17½- -
l.c.l., dlvd.....lb. .17¾- -
plain, bgs., c.l., dlvd.....lb. .15½- -
l.c.l., dlvd.....lb. .15¾- -
Hydride, cns., works.....lb. 7.00 - 8.0[illegible]
Pigment, barium base, bgs., c.l., dlvd..lb. .06¼- -
l.c.l., dlvd.....lb. .06¾- -
Calcium base, bgs., c.l., dlvd. lb. .09 - -
l.c.l., dlvd.....lb. .09¾- -

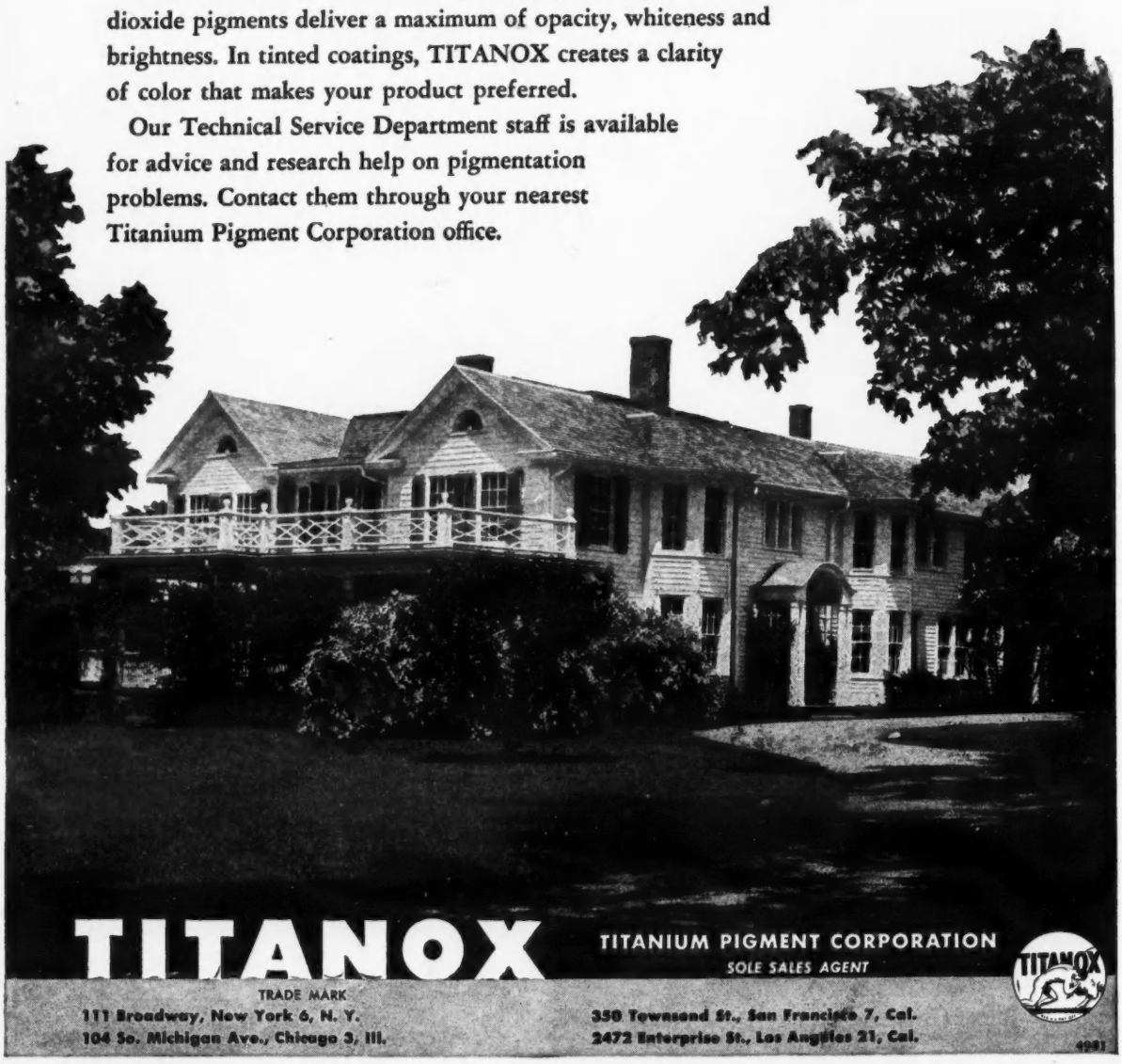
TITANOX . . . *the brightest name in titanium pigments*

Sunlight Brightness Heightened by TITANOX

Set quietly in the midst of shade trees and shrubbery, this gleaming white house is impressive not only because of its comfortable lines and size but also because of its bright, white coating.

Paints made with TITANOX point up good jobs, for these titanium dioxide pigments deliver a maximum of opacity, whiteness and brightness. In tinted coatings, TITANOX creates a clarity of color that makes your product preferred.

Our Technical Service Department staff is available for advice and research help on pigmentation problems. Contact them through your nearest Titanium Pigment Corporation office.



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SOLE SALES AGENT
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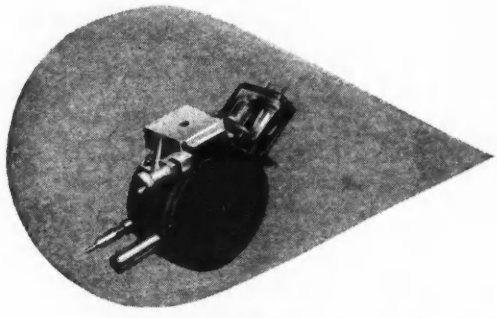
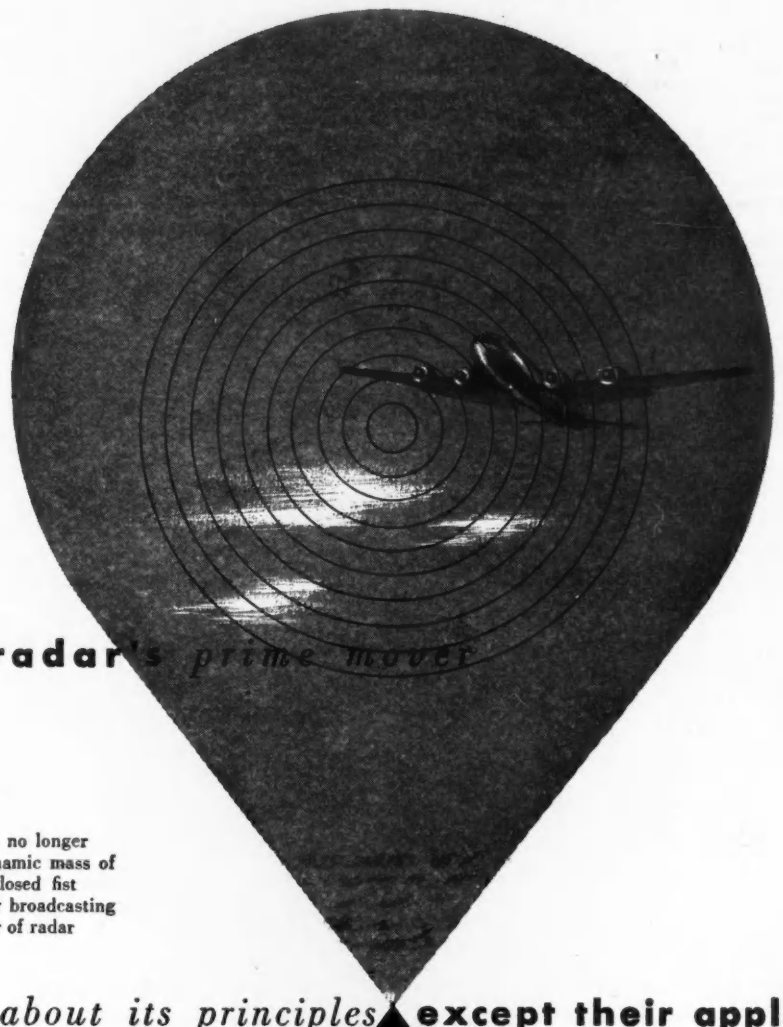
dynamic **medicinals** *for a dynamic age*



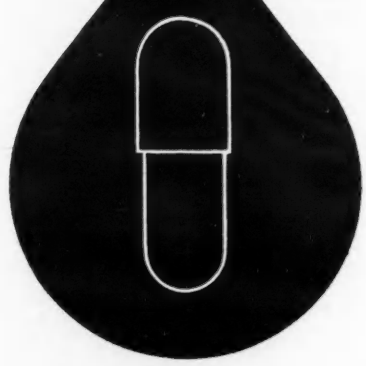
radar's *prime mover*



Perfected during the war, the Magnetron no longer even looks like a radio tube. From a dynamic mass of metal and glass smaller than a man's closed fist surges power far greater than that of any broadcasting station. The Magnetron is the prime mover of radar and the entire electronics industry.

yet there is nothing new about its principles **except their application**

vitamins



Owners of private formulae for vitamins approve Strong Cobb's dynamic manufacturing which produces medicaments of elegance to obviate customer resistance. Unpleasant taste and odor are removed. The resulting vitamin passes the critique of the most discriminating.

Liquids, tablets, capsules and creams have tomorrow's precision control engineered into them by Strong Cobb's dynamic manufacture.

Whether you are considering immediate or future production our technical sales director will be pleased to talk over your manufacturing problems with you.

Strong Cobb & Company, Inc.

Strong Cobb Division of Standard Brands Incorporated
Cleveland 4, Ohio

Titanium pigment, calcium-rutile base, bgs., c.l., dlvd..lb. .06 - —
l.c.l., dlvd.....lb. .06¾- —
Magnesium base, dlvd.....lb. No prices
l.c.l., dlvd.....lb. No prices

Titanium dioxide and pigment in bbls., ¼c. higher; Pac. coast, c.l., dlvd., l.c.l., ex whse, ¼c. higher.

Tetrachloride, CP, 55-gal. dms., works..lb. .57 - —
smaller pkgs., works....lb. .65 - 1.22
technical, 55-gal. dms., works. lb. .32 - —
smaller pkgs., works.....lb. .40 - 1.00
Tolu balsam, cns.....lb. 3.75 3.80
Toluol (toluene), 2°, indust., ret. dms., works..gal. .28 - —
tanks, E. of Omaha, frt. alld. gal. .23 - —
West Minnequa, Colo...gal. .22 - —

Prices on toluol from petroleum, tanks, delivered (maximum freight allowance in parentheses), are:—Ark., 23c.; Chicago, 25c. (3½c.); Del.-Md.-D. C., 23c. (2¾c.); Detroit, 23c. (3 5/10c.); La., 23c.; N. E., 23c. (2¼c.); N. J., 23c.; N. Y., 23c.; N. C., 25c. (5c.); Pa., 23c. (2¾c.); S. C., 26c. (6c.); Tenn., 23c. (3¼c.); Va., 24c. (3¼c.); W. Va., 23c. (2¾c.).

Toluol, nitration, ret. dms., works. gal. .26 - —
tanks, E. of Omaha, frt. alld. gal. .23 - —
West Minnequa, Colo....gal. .22 - —
Toluene (see Toluol).
Toluidin base, distilled, kgs...lb. 1.60 - —
Tonga, 50% bark and vine, bbls. lb. .80 - .81
Tonka beans, Angostura, cks..lb. 1.70 - 1.80
Brazilian, Surinam, cs.....lb. .85 - .90

Tetraquine, USP XII, 100-cns. lots..oz. .32 - —
Triacetin, dms., works.....lb. .36 - —
Triamylamine, dms., c.l., works. lb. .96 - —
l.c.l. .....lb. 1.01 - —
Tributyl citrate, dms......lb. .41 - .49
smaller pkgs.....lb. .52 - —
Phosphate, dms., l.c.l., frt. alld. E. of Rockies..lb. .65½- —
Tributylamine, dms., c.l., works. lb. .78 - —
l.c.l., works.....lb. .81 - —
Trichlorobenzene, dms., c.l., frt. alld..lb. .10½- —
l.c.l., frt. alld.....lb. .11 - .14
tanks, frt. alld.....lb. .10 - —
Trichloroethane, dms., c.l., works. lb. .15 - —
l.c.l., works.....lb. .17 - —
Trichloroethylene, dms., c.l., Zone 1, works, frt. alld..lb. .08 - —
Zone 2, frt. alld.....lb. .08½- —
Zone 3, frt. alld.....lb. .09 - —
Zone 4, ex whse.....lb. .09 - —

Trichloroethylene, l.c.l. prices, ½c. higher. Zones are—(1) Conn., Del., Ill., Ind., Ia., Ky., Me., Md., Mass., Mich., Minn., Mo., N. J., N. Y., N. C., Ohio, Pa., R. I., Tenn., Vt., Va., W. Va., Wis., Omaha, K. C., Kan.; (2) Ala., Ark., Fla., Ga., Kan., La., Miss., Neb., N. D., Okla., S. C., S. D.; (3) Col., Mont. (E), N. M., Tex., Wyo.; (4) Ariz., Cal., Idaho, Mont. (W), Nev., Ore., Utah, Wash.

Tricresyl phosphate, coaltar base, dms., c.l., dlvd..lb. .33 - —
l.c.l., dlvd.....lb. .33½- —
tanks, dlvd.....lb. .32 - —
Tricresyl phosphate, petroleum base, dms., c.l., dlvd..lb. .37 - —
l.c.l., same basis.....lb. .37½- —
tanks, same basis.....lb. .36 - —

Triethanolamine, dms., c.l., frt. alld. in E..lb. .19½- —
l.c.l., same basis.....lb. .20½- —
tanks, same basis.....lb. .16½- —
Triethyl phosphate, cns......lb. .49 - —
Triethylamine, dms., c.l., works, basis 100%...lb. .34 - —
l.c.l., works, basis 100%...lb. .36 - —
tanks, works, basis 100%....lb. .30 - —
Triethyleneglycol, dms., c.l., frt. alld. in E..lb. .18½- —
l.c.l., same basis.....lb. .19½- —
tanks, same basis.....lb. .17½- —
Trimethylamine, anhydrous, cyl., works, frt. alld. E. of Miss., 100% basis..lb. .95 - —
solution, dms., c.l., frt. alld. E. of Miss., 100% basis..lb. .95 - —
Triphenyl phosphate, bbls., c.l., frt. alld..lb. .30 - —
l.c.l., same basis.....lb. .31 - —
Tripoli, air-floated, bgs., c.l., works..ton.21.00 - —
double-grd., bgs., c.l., works.. ton.17.00 - —
once-grd., bgs., c.l., works.ton.16.00 - —
Trisodium phosphate (see Soda phosphate tribasic).
Tuba root (see Cube root).
Tungsten metal, powd., 98.8+%, dms., works..lb. 2.85 - —
Oxide, kgs., same basis.....lb. 4.75 - —
Turmeric root, Alleppey, bls....lb. .22 - .22½
Haitian, bls. .....lb. .15 - .15½
Jamaica, futures, bls.....lb. .15½- .16
Madras, bgs. .....lb. .17 - .17½
Turpentine, gum (see Naval Stores, Protective Coatings market).

Turpentine, wood, d.d., dms., extra, c.l., works, South. gal. .81 - —
l.c.l., same basis.....gal. .82 - —
tanks, wks., South.....gal. .75 - —
steam-dist., l.c.l., dms., incl., East..gal. 1.36 - —
tanks, South.....gal. 1.15 - —
Sulphate, ret. dms., East...gal. 1.00 - 1.05

U

Unicorn root, false (see Helonias root).
True (see Aletris root).
Uranium, oxide, black, bgs...lb. 2.55 - —
yellow, kgs.....lb. 1.35 - —
Urea, dom., 46% N., bgs., c.l., works or ship, pts..ton.73.00 - —
l.c.l., ship, pts.....ton.75.50 -80.50
fertilizer comp., 42% N., bulk, c.l., works or Atlantic or Gulf ports..ton.57.40 - —
fixed ammonia content, usual Atlantic and Gulf ports, NH_3..ton.116.80 - —
imports, pure, cs.....lb. .13 - —
Urea-ammonia liquor (A and B), free ammonia content, Belle, W. Va., freight equalized with Hopewell, Va..ton.89.00 - —
fixed ammonia content, Belle, W. Va., freight equalized with Hopewell, Va., NH_3. ton.112.80 - —

C and D prices for Urea-ammonia liquor are $1.20 per ton of nitrogen higher than the A and B respectively for the same destinations.

Urunday, extract, 63% tannin, ex dock, U. S. ports..lb. .05625- .05900
Uva ursi leaves, bls......lb. .16 - .19

V

Valerian root, Belgian, NF, bls. lb. .50 - .55
Indian, bls. .....lb. .42 - .50
Valonia, beards, bgs, ex dock.. ton.75.00 - —
Cups, bgs., ex dock.....ton.58.00 - —
Extract, powder, bgs., ex dock, lb. .11½- .11¾
Vanadium pentoxide, CP, bgs., cns., works..lb. 7.00 - —
tech., dms., works.....lb. 1.10 - —
Vanilla beans, Bourbon, tins..lb. 8.00 - 9.75
Mexican, cuts, tins.....lb. 9.00 -10.00
whole, tins.....lb.10.50 -11.00
Tahiti, tins.....lb. 4.00 - 4.25
Vanillin, ex eugenol, tins, 25 lbs. or more..lb. 4.30 - —
smaller lots, tins.....lb. 4.55 - 4.60
ex guaiacol, tins, 25 lbs. or more. lb. 2.00 - —
smaller lots, tins.....lb. 2.05 - 2.15
ex lignin, tins, 25 lbs. or more. lb. 2.25 - —
smaller lots, tins.....lb. 2.45 - 2.60
Venice turpentine, artif., cns...lb. .24 - .30
Verdigris, bbls., bgs......lb. .23 - .25
Vinyl acetate, obys., works....lb. .25 - —
dms., c.l., works.....lb. .15½- —
l.c.l., works.....lb. .16½- —
tanks, works.....lb. .14 - —
Ether, bots., 75 c.c., less 20% and 20%..bot. 1.80 - —
60 c.c., same basis.....bot. 1.05 - —
25 c.c., same basis.....bot. .65 - —
Trichloride (see Trichloroethane).
Viosterol (irradiated ergosterol), bots., mil., units. .10 - .12
in corn oil (see Calciferol).
Vinylpyridin, ret. dms., works.lb. 1.80 - —
Vitamin A (see Oils, codliver, halibut-liver).
B (see Thiamine hydrochloride).
B_2 (see Riboflavin).
B complex, natural (see Rice bran and Yeast).
Vitamin B_6 (see Pyridoxin).
C (see Acid, ascorbic).
D (see Oils, codliver, halibut-liver, viosterol).
D_2 (see Calciferol).
E (see Alphatocopherol).
G (see Riboflavin).
P-P (see Acid, nicotinic, and Nicotinamide).
Violet, methyl, toner (see M).
V.M.P. naphtha (see Petroleum naphtha,

W

Wahoo, root bark, bls.....lb. 2.00 Nom.
tree bark, bls.....lb. .45 - .50
Wattle bark, merchantable bags, f.a.s..ton.65.00 - —
fair average, bgs., f.a.s... ton.67.50 - —
extract, liquid, 35% tannin, bbls., works..lb. .06 - .06¼
tanks, works.....lb. .05½- .05¾
solid, E. Afr., 61% tannin, in bond, ex dock..lb. .06¾- —
S. Afr., 62% tannin, ex dock, in bond..lb. .07 - —
Wattle extract prices based on $20 freight and $1.00 insurance per long ton.
Wax, amorphous (see Wax, microcrystalline).
Bayberry, bgs.....lb. No stocks
Bees, bleached, USP, white, bricks, cakes, cs..lb. .70 - .71
slabs, bgs.....lb. .67 - .69
crude, African, bgs.....lb. .58 - .59
Western hemisphere, bgs.lb. .61 - .62
refined, yellow, bricks, bgs.lb. .64 - .65
slabs, cs.....lb. .63 - .64
Candelilla, crude, bgs.....lb. .76 - .77
refined, bgs.....lb. .80 - .82

Powdered, candelilla, 20 mesh, 5c. per lb. extra, 80 mesh, 5½c.; 100-200 mesh, 6c.

Carnauba, chalky, No. 3, bgs., ton lots..lb. 1.33 - 1.35
North Country, No. 2, bgs., ton lots..lb. 1.40 - 1.45
No. 3, bgs., ton lots.....lb. 1.35 - 1.37
refined, bgs., ton lots.....lb. 1.50 - 1.52
yellow, No. 1, bgs., ton lots. lb. 1.80 - 1.82
No. 2, bgs., ton lots.....lb. 1.78 - 1.80

Powdered carnauba prices, same differentials as powdered candelilla.

Ceresin, dom., 132°-136° m.p., bgs..lb. .16 - .16¼
138°-140° m.p., bgs.....lb. .18 - .18½
158°-162° m.p., bgs.....lb. .20½- .21
Japan, bgs.....lb. .45 - .50
Microcrystalline, 170°-175° m.p., A.S.T.M., amber, ctns., 20 tons yearly contract, group 3, works..lb. .16 - —
smaller lots, same basis. lb. .16 - .17½
black, ctns., 20 tons, same basis..lb. .14½- —
smaller lots, same basis..lb. .14½- .15½

That's a provocative question for every pharmaceutical manufacturer aiming at *thoroughly effective* multi-vitamin products. Even though the actual human requirement for "Capa" is still undetermined, the conviction grows that no multi-vitamin formula can be considered therapeutically complete without a liberal amount of "Capa." Five species other than man—dogs, pigs, fowl, rats and mice—are known to require approximately five to ten times more "Capa" than thiamin. Moreover, "Capa" deficiencies in these species are known to impair the functions of heart, kidneys, stomach, intestines, skin, nervous system and certain glands—a variety of symptoms indicating strongly that Pantothenic acid is fundamental to life itself.

In the light of this consistent evidence, let the established ratio between the "Capa" and thiamin requirements of experimental animals be your guide, when you produce a multi-vitamin product for human consumption.

Nopco Chemical Company—a pioneer producer of "Capa"—offers ample and reliable supplies of "Capa" in two forms.

● NOPCO also offers CALCIUM PANTOTHENATE DEXTROROTATORY-NOPCO*—the pure, white, odorless, crystalline 100% active salt—and Beta-Alanine, important ingredient in pantothenate production.

Copyright 1946, National Oil Products Co.

dl-Calcium Pantothenate-Nopco*

a white odorless powder form guaranteed 49% active and priced to permit a 20% saving in cost

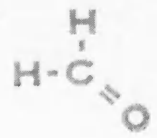
★ PRODUCTS OF

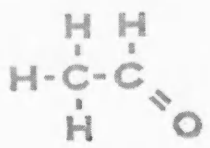
NOPCO CHEMICAL COMPANY, Harrison, N. J. · A Subsidiary of National Oil Products Company

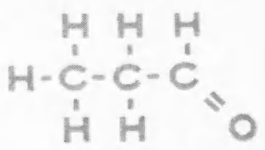
Pioneer producers of calcium pantothenate, natural A & D fish liver oil blends and concentrates, Vitab Rice Bran Concentrate —a naturally rich source of pantothenic acid

OPD—3-3-1947 33

CELANESE OFFERS 1, 2 AND 3 CARBON ALDEHYDES







With the addition of propionaldehyde to the group of organic chemicals produced at Bishop, Texas, Celanese now offers industry a family of lower aldehydes which includes formaldehyde and acetaldehyde as well as this hitherto commercially unavailable three-carbon aldehyde. Sample quantities of propionaldehyde are available immediately for experimentation and pilot plant development. As propionaldehyde is incorporated into industrial processes, large scale production will be gauged to demand.

There are advantages in making Celanese your source of supply for organic chemicals. Situated in an area rich in natural gas, the basic material for Celanese chemicals, Celanese offers stability of supply with all its attendant benefits. Our Celanese Technical Staff is prepared to work with you to suggest the opportunities and processing improvements presented by this new group of petroleum chemicals now available from Celanese. Celanese Chemical Corporation, division of Celanese Corporation of America, 180 Madison Avenue, New York 16, N. Y.

* Reg. U. S. Pat. Off.

Celanese* Chemicals

FORMALDEHYDE
ACETALDEHYDE PROPIONALDEHYDE
ACETIC ACID ACETONE
METHANOL n-PROPYL ALCOHOL
ORGANIC PHOSPHATES
PLASTICIZERS
INTERMEDIATES

Wax, microcrystalline, white, ctns., 80 tons, same basis. lb. .27 - —
smaller lots, same basis.. lb. .27 - .29
190°-196° m.p., A.S.T.M., amber, ctns., 80 tons, same basis..lb. .18 - —
smaller lots, same basis. lb. .18 - .19
190°-196° m.p., ASTM, black, ctns., 80 tons, same basis. lb. .16½- —
smaller ctns., same basis. lb. .16¾- .17½
white, ctns., 80 tons, same basis..lb. .31 - —
smaller lots, same basis. lb. .31 - .32
Montan, crude, bgs.....lb. .52 - .55
Ouricury, crude, bgs., ton lots. lb. .72 - .74
refined, bgs., ton lots.....lb. .78 - .80
Ozokerite, dom., 180-190 F., c.l. lb. .36 - —
182-184 F., bgs., c.l.....lb. .31 - —
182-183 F., bgs., c.l.....lb. .27 - —
Spermaceti, blocks, cs.....lb. .45 - .50
cakes, cs. .....lb. .46 - .51
White lead (see Lead, white).
White precipitate, powd., dms., 50 lbs. or more..lb. 2.27 - —
White pine bark, rossed, bls..lb. .21 - .25
Whiting, limestone, dry-grd., 325 mesh, bgs., 40 tons, works, St. Louis..ton.10.50 - —
smaller lots, works, St. Louis..ton.12.50 - —
wet-grd., air-floated, 325 mesh, 90½%, bgs., c.l.....ton.14.50 -27.50
200 mesh, 99¾%, bgs., c.l. ton. No prices
99%, bgs., c.l.....ton. No prices

Whiting, wet-grd., water-floated, extra, gliders, bgs., c.l. ton.14.50 -28.90
gliders, bgs., c.l.....ton. No prices
putty grade, bgs., c.l..ton.13.00 - —
surface treated, bgs., c.l., Ohio works..ton.30.00 - —
Paris, white, bgs., c.l.....ton.25.00 -31.00
l.c.l. .....ton.35.00 -39.00
precipitated, bgs., c.l.....ton.14.00 -15.00
l.c.l. .....ton.16.00 -20.00
Wild cherry bark, thick, bls..lb. .06 - .07
thin, natural, bgs.....lb. .18 - .20
rossed, green, bls.....lb. .24 - .26
Wild indigo root, bls.....lb. .38 - .40
Witch hazel leaves, bls.....lb. .28 - .30
Witherite (see Barium carbonate, natural).
Woodflour, 40 mesh, bulk, c.l., N. Tonawanda, N. Y..ton. No prices
60 mesh, same basis.....ton. No prices
80 mesh, same basis.....ton. No prices
100 mesh, same basis.....ton. No prices
Woodflour, in bags, 25c. each extra, returnable.
Wormseed, American, bgs.....lb. .20 - .27
Levant, bgs.....lb. 4.25 - 4.50
Wormwood, bls. .....lb. .50 - .60

X

Xanthorrhiza, bls. .....lb. .28 - .30
Xylidin, mixed, dms.....lb. .38 - —
Xylene (see Xylol).
Xylol (xylene), indust., ret. dms., works..gal. .28 - —
tanks, E. of Omaha, frt. alld. gal. .23 - —
Xylol (xylene), West Minnequa, Colo..gal. .23 - —
Prices on xylol from petroleum, tanks, delivered (maximum freight allowance in parentheses), are:—Ark., 23c.; Del.-Md.-D. C., 23c. (2¾c.); Detroit, 23c. (1 5/10c.); La., 23c.; N. E., 23c. (2¼c.); N. J., 23c.; N. Y., 23c.; N. C., 23c. (6c.); Pa., 23c. (2¼c); S. C., 24c. (6c.); Tenn., 23c. (2¾c.); Va., 24c. (3½c.); W. Va., 23c. (2¾c.); the Chicago price is 20c. f.o.b. terminal.
10°, ret. dms., works.....gal. .30 - —
tanks, E. of Omaha, frt. alld. gal. .25 - —
8°, ret. dms., works.....gal. .31 - —
tanks, E. of Omaha, frt. alld. gal. .32 - —
3°, ret. dms., works.....gal. .42 - —
tanks, E. of Omaha, frt. alld. gal. .37 - —

Y

Yara yara, cryst., bots., cns..lb. 1.62 - 1.75
Yeast, brewer's dry, 50 B units, dms..lb. .35 - —
80 B units, dms.....lb. .45 - —
200 B units, dms.....lb. .50 - —
800 B units, dms.....lb. .60 - —
Yellow, barium chromate, CP, bgs., l.c.l., divd. N. of Tenn. and N. C., E. of Miss. R., including Davenport, Minneapolis, Rock Island, St. Louis, St. Paul..lb. .33 - —
Barium chromate yellow price differentials in other States and city zones are those for chrome yellow below.
Benzidin, bbls., divd.....lb. 1.60 - —
Yellow, cadmium, lithopone, all shades, bbls., frt. alld. E. of Rockies..lb. .55 - —
Los Angeles and San Francisco, ex whse. 1c. per lb. higher.
Chrome, CP, bbls., divd. N. Tenn. and N. C., E. of Miss. R., includ. Davenport, Minneapolis, Rock Island, St. Louis, St. Paul, contracts.. lb. .24 - —
Chrome, CP, bbls., divd. Ala., Fla., Ga. La. (Shreveport), 1½c. higher; Miss. N. C., S. C., Tenn., Dallas, Tex., 1¼c higher; Ft. Worth, Tex., 1½c. higher; El Paso, Tex., 2c. higher; Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St Joseph, 1.6c. higher divd. Pac. Coast; for Denver, Pueblo, Salt Lake City, Wichita prices are equalized with Chicago.
Dutch, pink, bbls.....lb. .09 - .11
Hansa, bbls., same basis as chrome..lb. 1.43 - —
primrose, bbls., same basis.lb. 1.90 - —
Bethlehem, Easton, Pa.. lb. .04½- —
l.c.l., same basis.....lb. .05 - —
synthetic, bbls., c.l., works. lb. .07¼- —
l.c.l., works.....lb. .07¼- —
Mercury oxide, bbls., 1,000 lbs. lb. 2.23 - —
smaller lots.....lb. 2.25 - —
Ocher, American, golden, bbls., works..lb. .04½- .06½
Iron oxide, nat., bbls., c.l., yellow, bgs., works.....lb. .02½- .03½
French type, bgs., c.l.....lb. .03½- —
l.c.l. .....lb. .04 - —
Persian orange (see O).
Zinc, bbls., same basis as chrome..lb. .17½- —
Navy spec. type bbls., contract..lb. .19 - —
Yellow dock root, bls.....lb. .35 - .50
Yellow xanthorrhiza (see Xanthorrhiza).
Yerba santa leaves, bls.....lb. .32 - .35
Yohimbine hydrochloride, vis..oz. 3.25 - 4.00

Z

Zein, bgs., 1,000 lbs., works...lb. .25 - —
smaller lots, bgs.....lb. .30 - —
Zinc acetate, tech., bbls., divd.lb. .20 - —
USP, bbls.....lb. .26 - .27
kgs.....lb. .27 - .28
Arsenite, bgs., c.l. frt. alld. E. of Rockies..lb. .11¾- .12¼
l.c.l., same basis.....lb. .12¾- .13¼
Borate, bgs., c.l.....lb. .12 - —
Carbonate, tech., rubbermakers' grade, bbls., works..lb. .09¾- .10½
USP, precip., powd., bbls..lb. .35 - —
dms.....lb. .40 - —
kgs.....lb. .37 - —
Chloride, tech., fused, dms., c.l., works..100 lbs. 5.00 - —
l.c.l., works.....100 lbs. 5.25 - —
gran., dms., c.l., works... 100 lbs. 5.75 - —
l.c.l., works.....100 lbs. 6.00 - —
solution, 50%, dms., c.l., works. lb. .0315- —
l.c.l., works.....lb. .04½- .04½
tanks, works.....lb. .0280- —
USP, dms.....lb. .30 - .31
jars .....lb. .35 - .36
Chromate (see Yellow, zinc).
Cyanide, kgs., works.....lb. .34 - .35
Dust, bbls., c.l., divd.....lb. .1250- .1300
c.l. .....lb. .12½- .13
Fluoride, bbls., works.....lb. .18 - .19
Hydrosulphite, dms., works..lb. .16 - —
Iodide, NF jars.....lb. 4.65 - —
Laurate, bbls.....lb. .32 - .38
Metal (quotations in Protective Coatings market).
Naphthenates, 8% Zn. liquid, dms..lb. .18¾- —
10% Zn. liquid, dms.....lb. .22¼- —
14% Zn. solid, dms.....lb. .31¾- —
Oxide, pigment, dom., acicular, bgs., c.l., divd..lb. .09¼- —
l.c.l., works.....lb. .09¾- —
American process, com'l, lead-free, bgs., c.l., divd..lb. .09¼- —
l.c.l., works.....lb. .09¾- —
leaded, 5%, bgs., c.l., divd. lb. .09¼- —
l.c.l., works.....lb. .09¾- —
35% or more, bgs., c.l., divd..lb. .11 - —
l.c.l., works.....lb. .11¼- —
50%, bgs., c.l., divd.....lb. .11¾- —
l.c.l., works.....lb. .11¾- —
French process, com'l, lead-free, bgs., c.l., divd..lb. .11¾- —
l.c.l., works.....lb. .12 - —
green seal, bgs., c.l., divd..lb. .11¼- —
l.c.l., works.....lb. .11¾- —
white seal, bgs., c.l., divd..lb. .11¾- —
l.c.l., works.....lb. .12 - —
red seal, bgs., c.l., divd. lb. .10¾- —
l.c.l., works.....lb. .11 - —
USP, ctns., c.l., divd.....lb. .12¾- —
l.c.l., works.....lb. .13 - —
Zinc oxide Pac. Coast prices ¼c. higher: bbls. prices ¼c. higher than bgs.
Resinate, fused, 1% Zn, lump, 9% Zn. powd., dms..lb. .18½- —
Silicofluoride, bbls.....lb. .15 - .16
Stearate, tech., ctns., 2,000 lbs. to c.l..lb. .48 - .49
smaller lots, same basis.lb. .50 - —
USP (same prices as tech.).
Sulphate, cryst., 22% Zn, bgs., c.l., works, frt. alld.... 100 lbs. 4.15 - —
l.c.l., same basis.100 lbs. 4.90 - —
flake, 25½% Zn., bgs., c.l., same basis..100 lbs. 4.80 - —
l.c.l., same basis....100 lbs. 5.55 - —
powd., 36% Zn., bgs., c.l., same basis..100 lbs. 6.75 - —
l.c.l., same basis.100 lbs. 7.50 - —
Zinc sulphate in bbls. 10c. higher.
Sulphide, pure, bgs., c.l., divd. lb. .10 - —
l.c.l., works.....lb. .10¾- —
Barium pigment, works, bgs., c.l., divd..lb. .07 - —
l.c.l., works.....lb. .07¼- —
Calcium pigment, works, bgs., c.l., divd..lb. .07 - —
l.c.l., works.....lb. .07¼- —
Fluorescent pigment, works, frt. alld..lb. 1.00 - 2.00
Magnesium pigment, bgs., c.l., divd..lb. .07 - —
l.c.l., divd.....lb. .07¼- —
Zinc sulphide and pigment, Pac. coast prices ¼c. higher; bbl. prices ¼c. higher than bgs.
Sulphoxylate formaldehyde, ha- bbls., dms..lb. .28 - .30

ECONOMY BENEFITS OF SPENSOL

SPENCER NITROGEN SOLUTIONS

SPENSOL, the "economy" high nitrogen fertilizer mixing ingredient by Spencer Chemical Company, offers these four "economy benefits" . . . faster deliveries from Spencer's mid-continent Pittsburg, Kansas works . . . PLUS national consumer advertising in farm magazines. Note Spensol's high specifications, below.

1 **Higher Nitrogen Content . . . Spensol** offers more nitrogen per dollar, compared with SOLID nitrogen fertilizer mixing ingredients.

2 **Spensol Saves "Man Hours"** . . . is easier to mix a clean, non-caking fertilizer. Reduces handling of mixing material.

3 **Spensol Saves Building Costs** . . . Your Spensol tank cars serve as your storage "warehouse"— eliminate waste.

4 **Spensol Saves Equipment Costs** . . . Spensol mixing equipment is simple in design, inexpensive to install and operate.

COMPOSITION OF SPENSOL (SPENCER NITROGEN SOLUTIONS)

	Ammonium Nitrate %	Anhydrous Ammonia %	Water %	Total Nitrogen %	Nitrate Nitrogen %	Ammonia Nitrogen %
SPENSOL A	65.0	21.7	13.3	40.6	11.36	29.24
SPENSOL B	55.5	26.0	18.5	40.8	9.62	31.18
SPENSOL C	66.8	16.6	16.6	37.0	11.65	25.35

✓ Higher Nitrogen Content
✓ Easier Mixing
✓ More Nitrogen Per Dollar
✓ Free Technical Service

Spencer CHEMICAL COMPANY

General and Sales Offices: Dwight Building, Kansas City 6, Missouri

Works: Pittsburg, Kansas

• Manufacturers of HI-NITROGEN Fertilizer Products •

Zinc sulphoxylate, formaldehyde, basic, dms., works, frt. alld.	lb.	.17 - —
normal, dms., works, frt. alld.	lb.	.35 - —
Tallate, 5% Zn, dms.	lb.	.09¾- —
Yellow (see Yellow, zinc).		
Zinc-ammonia chloride, dms., c.l., works	100 lbs.	5.65 - —
l.c.l., works	100 lbs.	6.70 - —
Zinc - cadmium sulphide, fluorescent, cns., works, frt. alld.	lb.	2.00 - 2.60
Zinc-iron oxide pigment, bgs., c.l., dlvd.	lb.	.97½- —
l.c.l., dlvd. E. of Rockies.	lb.	.99½- —
Pac. cst.	lb.	.99½- —
ex whse., Pac. cst.	lb.	.99½- —
Zirconium acetate, solution, bbls., works	lb.	.32½- —
Hydride, cns., works	lb.	7.00 - 8.00
Nitrate, bgs., works	lb.	3.00 - 4.00
Oxide, 99%, grd., bbls., c.l., works	lb.	.22½- —
l.c.l.	lb.	.23½- —
white, 99¼%-99%, grd., kgs., works	lb.	.80 - —
milled, electric, fused, 2,000-9,999 lbs., works	lb.	.46 - —
500 lbs. and less, same basis	lb.	.48½- .49
2 "XX" bbls.	tons, works	lb. .23¼- —
Sulphate, basic, cake, bbls., c.l., works	lb.	.12 - —
l.c.l., works	lb.	.13½- —
smaller lots, works	lb.	.50 - .51½

Synthetic Resins
and other
Branded Paint Materials
(Manufacturers' List Prices)

A

Abalyn (see methyl abietate in Current Market Quotations).		
Aquaplex (resin emulsion type), 5-6, bbls., c.l.	lb.	.14 - —
l.c.l.	lb.	.14½- —
Aroclors, distilled, dms., c.l., works	lb.	.18 - —
ton lots, works	lb.	.18½- —
single dms., works	lb.	.19 - —
Aroclors, undistilled, dms., c.l., works	lb.	.15½- —
ton lots, works	lb.	.16 - —
single dms., works	lb.	.16½- —

B

Bakelite, standard materials, C-9 resin concentrate, BR-13260, c.l.	lb.	.45 - —
single drum	lb.	.45½- —
oil modified, BR-17920, c.l.	lb.	.53 - —
single drum	lb.	.53½- —
100% phenolic resins, pale, heat hardening, BR-3300, c.l.	lb.	.37 - —
single drum	lb.	.37½- —
BR-10282, c.l.	lb.	.34 - —
single drum	lb.	.34½- —
BR-14634, c.l.	lb.	.33 - —
single drum	lb.	.33½- —
Non-heat hardening, BR-254, c.l.	lb.	.38 - —
single drum	lb.	.38½- —
Heat-hardening, BR-4036, c.l.	lb.	.39 - —
single drum	lb.	.39½- —
BR-9432, c.l.	lb.	.31 - —
single drum	lb.	.31½- —
BR-17700, c.l.	lb.	.34 - —
single drum	lb.	.34½- —
Resin concentrates, BR-15775, c.l.	lb.	.26 - —
single drum	lb.	.26½- —
Dispersion resins, BK-3902, c.l.	lb.	.31 - —
single drum	lb.	.31½- —
BK-16624, c.l.	lb.	.29 - —
single drum	lb.	.29½- —
Lacquer resin, BR-9367, c.l.	lb.	.25 - —
single drum	lb.	.25½- —
BJ-15408, c.l.	lb.	.39½- —
l.c.l.	lb.	.40 - —
Modified phenolic resins, BR-2072, c.l.	lb.	.25½- —
single drum	lb.	.26 - —
BR-11544, c.l.	lb.	.24 - —
single drum	lb.	.24½- —
Phenolic "resin baking" resins and solutions, BV-1600, c.l.	lb.	.30 - —
single drum	lb.	.30½- —
BV-10673, c.l.	lb.	.35 - —
single drum	lb.	.35½- —

Prices include containers. Deposit of $5.00 will be invoiced for each light gauge drum which is credited upon return of the drum to plant of origin, freight collect, in a usable condition. Prices listed are per pound based on quantities ordered for single shipments. Prices are f.o.b. Bound Brook, N. J., plant, with minimum transportation charges prepaid on units of standard drums in U. S. except as follows where lc. per pound must be added:—Ariz., Calif., Colo., Idaho, Mont., Nev., New Mex., Oregon, Tex., Utah, Wash., Wyoming. No transportation charges allowed on shipments of any materials in less than standard drum quantities.

C

Cellolyn 102, non-ret. dms., dlvd., c.l.	lb.	.23½- —
10 dms., same basis	lb.	.24 - —
1-9 dms., same basis	lb.	.24½- —
Cumar resin, AX, non-ret. dms., net weight.	lb.	.06½- —
BX, net weight	lb.	.06½- —
CX, gross weight	lb.	.06 - —
DX, gross weight	lb.	.05½- —
EX, gross weight	lb.	.06½- —
FX, gross weight	lb.	.06 - —
MH, Col. 1	lb.	.13 - —
1½-2	lb.	.12 - —
2½-3½	lb.	.11 - —
9	lb.	.09 - —
MS	lb.	.11 - —
P, 10°-80° C., col. 2½ and darker.	lb.	.11 - —
RH	lb.	.11 - —
RS	lb.	.11 - —
V col. ⅛	lb.	.14 - —
1	lb.	.13 - —
1½-2	lb.	.12 - —
2½ and darker	lb.	.11 - —
W col. ⅛	lb.	.14½- —
1	lb.	.13½- —
1½-2	lb.	.12½- —
2½ and darker	lb.	.11½- —

All "P" grades with melting point below 80 degrees C., and grades AX and BX are shipped in steel drums. Grades CX, DX, EX and FX are sold on a gross weight basis. All other grades are sold on a net weight basis and are shipped in destructible metal drums, but their packaging is subject to change without notice. Prices are based on f.o.b. plant at Frankfort, Pa., freight equalized with Pittsburgh.

D

Dow resin 276 V-2 and V-9, 55-gal. drums, c.l., works.	lb.	.24 - —
l.c.l., same basis	lb.	.24½- —
5 and 10-gal. drums, same basis	lb.	.30 - —
DC-804, dms., 50 gals., works.	gal.	18.65 - —
30 gals., same basis	gal.	18.65 - —
10 gals., same basis	gal.	19.40 -19.70
Durite (no prices at this time).		
Duraplex (no prices at this time).		

E

Esterol, Group "A," A (E.S. 2), non-ret. dms., l.c.l., works, frt. alld. in U. S. except Ariz., Calif., Colo., Ida., Mont., Nev., N. M., Tex., Utah, Wash., Wyo.	lb.	.31½- —
D, l.c.l., same basis	lb.	.27½- —
22 (E.S. 202), l.c.l., same basis	lb.	.23½- —
25 (E.S. 246), same basis, l.c.l.	lb.	.20 - —
33 (E.S. 293), l.c.l., same basis	lb.	.25 - —
562 (E.S. 19), l.c.l., same basis	lb.	.26½- —
660 (E.S. 56), l.c.l., same basis	lb.	.23 - —
750 (E.S. 94), l.c.l., same basis	lb.	.32 - —
2600 (E.S. 72), l.c.l., same basis	lb.	.25½- —
2633 (E.S. 69), l.c.l., same basis	lb.	.25½- —
4040 (E.S. 230), l.c.l.	lb.	.27½- —
5898, l.c.l., same basis	lb.	.27 - —

Group "A" are standard production items normally carried in the manufacturer's inventory.

Ethocel, etns. (50-lb.), 5,000 lbs. or more, frt. alld. 100 lbs. up, works	lb.	.57 - —
under 5,000 lbs., same basis	lb.	.59 - —

F

FCD resins (no prices at the present time due to unstable conditions).

Flexalyn solution, non-ret. dms., dlvd., c.l.	lb.	.17½- —
10 dms., same basis	lb.	.17¾- —
1-9 dms., same basis	lb.	.18½- —
Flexsynol, 102, tanks, dlvd.	lb.	.15½- —
105, tanks, dlvd.	lb.	.16½- —
135, tanks, dlvd.	lb.	.17½- —
145, tanks, dlvd.	lb.	.19 - —

G

G, resin, dms., net weight, works.	lb.	09½- —
Geon polyvinyl resins, Nos. 101 and 102, 50,000 lbs., works.	lb.	.33 - —
5,000 to 29,999 lbs., works.	lb.	.34 - —
200 to 4,999 lbs., works.	lb.	.36 - —
up to 199 lbs., works.	lb.	.50 - —
202, 50,000 lbs., works.	lb.	.36 - —
5,000 to 29,000 lbs., works.	lb.	.37 - —
200 to 4,999 lbs., works.	lb.	.39 - —
up to 199 lbs., works.	lb.	.56 - —
203, 50,000 lbs., works.	lb.	.38 - —
5,000 to 29,000 lbs., works.	lb.	.39 - —
200 to 4,999 lbs., works.	lb.	.41 - —
up to 199 lbs., works.	lb.	.58 - —
204, 50,000 lbs., works.	lb.	.42 - —
5,000 to 29,999 lbs.	lb.	.43 - —
200 to 4,999 lbs.	lb.	.45 - —
up to 199 lbs.	lb.	.60 - —

Guai-a-phene, ret. dms., dms. on deposit at $4.00 each, works, 50-55 gals.	gal.	2.47 - —
10 gals., two fives, per case, works.	gal.	2.57 - —
5 gals., one can per case, works.	gal.	2.62 - —
6 gals., six ones in single case, works.	gal.	2.72 - —
1 gal., in single carton, works.	gal.	2.82 - —

H

Hercolyn (see methyl abietate hydrogenated) in Current Market Quotations.		
Hydrogum, P-100, dms., c.l.	lb.	.14½- —
l.c.l.	lb.	.15 - .15¼

J

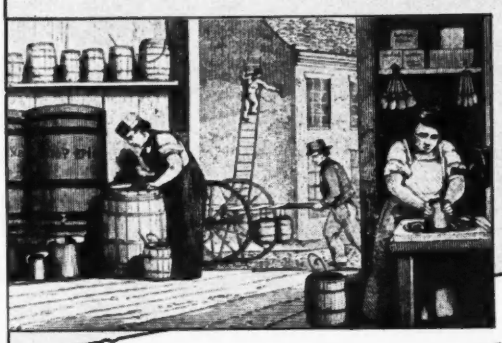
Jesite (see zinc-iron oxide pigment in regular list above).		

K

Kadox, 15, 17, 72, bgs., dlvd., c.l.	lb.	.09½- —
l.c.l., bgs., f.o.b. plant or whse.	lb.	.09¾- —
25, bgs., dlvd., c.l.	lb.	.11¾- —
l.c.l., bgs., f.o.b. plant or whse.	lb.	.12 - —
Shipment in barrels ¼c. per lb. higher. Pacific Coast prices ½c. per lb. higher.		
Koresin, f.o.b. works, one ton or more, dms.	lb.	.40 - —
single drum	lb.	.42 - —
less than one drum	lb.	.52 - —

Highlights of Paint Progress

No. 1 OF A SERIES



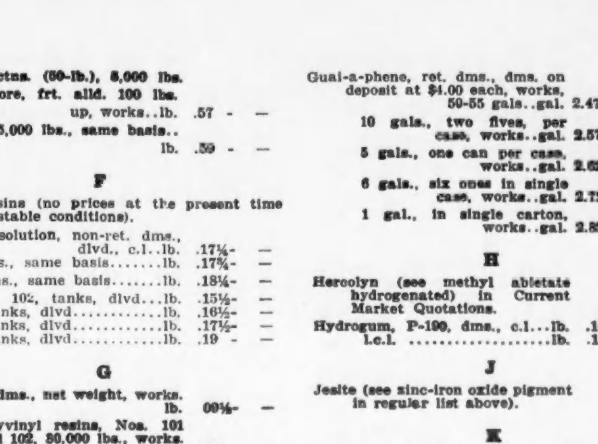
Paint of a sort was made by hand in olden days

1827

BEFORE THE DAWN OF READY-MIXED PAINTS

In the middle of the 17th Century a painted house was considered by the Puritans to be a mark of worldly vanity and was, therefore, sinful. A New England preacher who had painted his house was brought before the elders of the church and charged with that awful offense.

After the Revolutionary War, however, it was considered a mark of social distinction in New England to have a painted house because a barrel of paint cost a small fortune. Those were the good old days of stage coaches, water wheels, trading sloops and spinning wheels. "Science" and "Industry" were words hardly found even in dictionaries.



One of the first varnish works in America—1827

It was common practice, for example, for some painters to cook their own varnishes. Better quality products, however, were prepared by skilled craftsmen who learned the fine art from their fathers. In small kettles over wood fires, they cooked their hand-me-down formulas based on linseed oil and such fossil gums as zanzibar. They guarded jealously their secret recipes and practices.

Paint of a sort was made by hand in olden days. Practical painters or painter-carpenters "ground"—with a slab and muller—dry white lead and colors into pastes with linseed oil. A tub and paddle served as a mixer for thinning and tinting. Paints as we know them today did not then exist.

1848-1948

Partners in Paint Progress

In 1827 zinc oxide was an alchemist's curiosity. Its first commercial manufacture in this country, by The New Jersey Zinc Company in 1852, set the stage for the development of ready-mixed paints and a century of cooperative effort to improve paint products.

The Paint Industry — New Jersey Zinc

THE NEW JERSEY ZINC COMPANY
Established 1848
160 Front Street, New York 7, N. Y.

1827 — 1840 — 1900 — 1905 — 1910 — 1915 — 1920 — 1923 — 1925 — 1927 — 1929 — 1934 — 1936 — 1938 — 1941 — 1943

L

Lewisol resin, 28, non-returnable light-gauge steel dms., c.l., f.o.b. customer's siding, zone 1..lb. .29 - —
l.c.l., 10 dms., same basis. lb. .29½- —
1-9 dms., same basis..lb. .30 - —
33, c.l., same basis.....lb. .29½- —
l.c.l., 10 dms., same basis. lb. .30 - —
1-9, dms., same basis..lb. .30½- —

Lewisol resin prices are f.o.b. customer's siding, New Eng. and Middle Atlantic States, Va., W. Va., N. C., Ky., O., Mich., Ind., Ill., Wis., St. Paul and Minneapolis, Minn.; St. Louis, Mo. Prices are dms. included, not returnable; net 30 days.

M

Metronite pigment, 120 and 180 mesh, containers included, c.l., f.o.b. Milwaukee..ton.12.00 - —
l.c.l., same basis.....ton.14.00 - —
250 mesh, containers included, c.l., same basis..ton.18.00 - —
l.c.l., same basis.....ton.20.00 - —
325 mesh, containers included, c.l., same basis..ton.20.00 - —
l.c.l., same basis.....ton.26.00 - —
400 mesh, containers included, c.l., same basis ton.27.50 - —
l.c.l., same basis.....ton.38.00 - —

N

Neo-fat drying oil, 170, dms., c.l., dlvd..lb. .32¼- —
190, dms., c.l., dlvd.....lb. .35¼- —
290, dms., c.l., dlvd.....lb. .38¼- —
Neofat, fatty acid, 8R, dms., c.l., dlvd..lb. .31 - —
17, dms., c.l., dlvd.....lb. .26¼- —
19, dms., c.l., dlvd.....lb. .29¼- —

Neo-fat prices are 1c. per lb. higher in all States west of the Rocky Mountains and ½c. per lb. higher in Texas and Oklahoma. Drums are included and not returnable.

Nevillac, pale, hard, color 1-2, melting point 85-95°C., drums, works..lb. .25 - —
hard, color 2-½-4, melting point 85-95° C., same basis..lb. .23 - —
soft, color 2-½-4, melting point 65-70° C., same basis..lb. .25 - —
10° C, color ½-4, same basis.lb. .33 - —
ZC, same basis.....lb. .31 - —
OA, same basis.....lb. .45 - —
RP, same basis.....lb. .25 - —
TS, same basis.....lb. .45 - —
RT, same basis.....lb. .31 - —
RX, same basis.....lb. .31 - —
THO, same basis.....lb. .33 - —
Neville, resin, R-1 nevindene, color ½, dms., works..lb. .14½- —
R-3, nevindene, color 1, dms., works..lb. .13½- —
R-5, nevindene, color 1½-2, dms., works..lb. .12½- —
R-6, nevindene, color 2½-3½, dms., works..lb. .11½- —
R-7, N.P.S., color below 3, dms., works..lb. .14 - —
R-9, hard, color ½, dms., works..lb. .14 - —
R-10, hard, color 1, dms., works..lb. .13 - —
R-11, hard, color 1½-2, dms., works..lb. .12 - —
R-12, hard, color 2½-3½, dms., works..lb. .11 - —
Neville resin, R-13, medium, color ½, dms., works..lb. .14 - —
R-14, medium, color 1, dms., works..lb. .13 - —
R-15, medium, color 1½-2, dms., works..lb. .12 - —
R-16, medium, color 2½-4, dms., works..lb. .11 - —
R-17, medium, soft, color 3½-5, dms., works..lb. .11 - —
R-19, medium, soft, color 3½-5, dms., works..lb. .11 - —
R-21, soft, color 3½-5, dms., works..lb. .11 - —
R-22, special, soft, color 3½-5, dms., works..lb. .11 - —
R-29, medium, soft, color 2½-5, dms., works..lb. .11 - —
465, 110-125°C., dms., gross weight, Pittsburgh..lb. .04½- —

Neville resin prices, except 465 resin, are freight equalized with Phila. Less than full drum shipments are 5c. per pound additional, f.o.b. Neville Island, Pa.

Nevinol, dms., works.....lb. .16 - —
Nextex, 10, returnable dms., works..lb. .08½- —
Nuba, No. 1, 80-90° C., dms., gross weight, works..lb. .03½- —
No. 2, 100-125° C., dms., gross weight, works..lb. .03½- —
No. 3-X, 135-150° C., dms., gross weight, works..lb. .05 - —
Nuodex driers, cobalt, 6%, 400-lb. pkgs..lb. .35 - —
100-lb. pkgs.....lb. .38 - —
Calcium, 5%, 400-lb. pkgs..lb. .26½- —
100-lb. pkgs.....lb. .29½- —
Iron, 6%, 400-lb. pkgs.....lb. .17½- —
100-lb. pkgs.....lb. .20½- —
Lead, 24%, 450-lb. pkgs...lb. .18½- —
100-lb. pkgs.....lb. .21½- —
37%, 500-lb. pkgs.....lb. .27½- —
100-lb. pkgs.....lb. .30½- —
Nuodex driers, manganese, 6%, 400-lb. pkgs..lb. .19¼- —
100-lb. pkgs.....lb. .22¼- —
Zinc, 8%, 400-lb. pkgs.....lb. .18¾- —
100-lb. pkgs.....lb. .21¾- —

All prices are dlvd. to customer's plant anywhere in continental U.S.A.

P

Paradene, No. 1, 75-90° C., color 12-16, dms., gross wt., works, lb. .05½- —
2, 100-125° C., color 12-16, dms., gross wt., works.lb. .05½- —
3, 125-140° C., dms., gross wt. works..lb. .06 - —
33, 34, color 10-15, dms., works, lb. .06½- —
35, color 10-15, dms., works, gross wt..lb. .06 - —

Paradene prices are freight equalized with Philadelphia, Pa.

Paranol resin, extra hard, 25, l.c.l., dlvd..lb. .23½- —
30, l.c.l., dlvd.....lb. .24 - —
54, l.c.l., dlvd.....lb. .28 - —
1639, l.c.l., dlvd.....lb. .27 - —
Paranol resin, 1750, l.c.l., dlvd.lb. .26 - —
1855, l.c.l., dlvd.....lb. .25 - —
Parapen, 4511, l.c.l., dlvd....lb. .19 - —
4513, l.c.l., dlvd.....lb. .20 - —
Parazenes, 5 solid resins, c.l. and l.c.l., dlvd..lb. .16¼- —
Pentalyn A, non-ret. dms., f.o.b. customer's siding, zone 1, c.l..lb. .20 - —
10 dms., same basis....lb. .20½- —
1-9 dms., same basis...lb. .21 - —
G, non-ret. dms., f.o.b. customer's siding, zone 1, lb. .21½- —
10 dms., same basis...lb. .22 - —
1-9 dms., same basis...lb. .22½- —
M, non-ret. dms., c.l., f.o.b. customer's siding, c.l., zone 1..lb. .23 - —
10 dms., same basis.....lb. .23½- —
1-9 dms., same basis.....lb. .24 - —
M-802A, non-ret. dms., c.l., f.o.b. customer's siding, zone 1..lb. .23 - —
10 dms., same basis.....lb. .23½- —
1-9 dms., same basis.....lb. .24 - —
X, non-ret. dms., c.l., f.o.b. customer's siding, zone 1, lb. .23 - —
10 dms., same basis.....lb. .23½- —
1-9 dms., same basis.....lb. .24 - —
P.H.O., dms., works.....lb. .33 - —
Piccolastic, A-L, A-5, A-25, A-50, B-50, C-5, C-25, C-50, E-50 types, c.l., Clairton, Pa..lb. .20 - —
l.c.l., same basis.....lb. .20½- —

The above types are sold in heavy gauge steel drums, weighing approximately 52 lbs. each. Drums extra at $1.25 each, and non-returnable.

Piccolastic, A-75, B-75, B-160, C-75, C-100, C-125, D-75, D-100, D-125, D-150, E-75, E-100, E-125 types, c.l., Clairton, Pa..lb. .20 - —
l.c.l., same basis.....lb. .20½- —

The above types are sold on a net weight basis, in light gauge steel drums weighing approximately 15 lbs. each, drums included.

Piccolastic, FT, FX, FHF types, c.l., Clairton, Pa..lb. .12½- —
l.c.l., same basis.....lb. .13 - —

The above types are in heavy gauge steel drums, weighing approximately 52 lbs. each. Drums extra at $1.25 each, and non-returnable.

Piccolyte resins, S-10, S-25, S-40, dms., net. wt., f.o.b. Clairton, Pa., c.l..lb. .19 - —
l.c.l. .....lb. .19½- —
S-55, S-70, same basis, c.l.lb. .20 - —
l.c.l. .....lb. .20½- —
S-85, S-100, same basis, c.l.lb. .21 - —
l.c.l. .....lb. .21½- —
S-115, same basis, c.l.....lb. .22 - —
l.c.l. .....lb. .22½- —
Piccoumaron resins, 420, 420-S, dms., net wt., f.o.b. Clairton, Pa., frt. equald..lb. .09½- —
420-T, gross wt., f.o.b. works. lb. .07½- —
422-R, 423-R, 425-R, 427-R, dms., net. wt., f.o.b. works, frt. equald..lb. .11 - —
430, 435, bulk, gross wt., same basis..lb. .05½- —
440-T, f.o.b. works.....lb. .07 - —
450, 450-H and 450-S, f.o.b. works, frt. equald..lb. .10½- —
450-EH, same basis.....lb. .10½- —
460-T, f.o.b. works.....lb. .07 - —
XX-25, XX-40, bulk, net. wt., f.o.b. works, frt. equald. lb. .06½- —
XX-55, dms., gross wt., same basis..lb. .06 - —
XX-70, XX-100, same basis..lb. .05½- —
XX-115, same basis.....lb. .06 - —
T-115, f.o.b. works.....lb. .08 - —
60%, 420-ES Sol., non-ret. dms., c.l..lb. .08 - —
Pliolite, S-5, milled resin, 200-lb. dms., works..lb. .60 - —
Polypale, ester, No. 10, non-ret. dms., c.l., divd..lb. .23 - —
10 dms., same basis....lb. .23½- —
1-9 dms., same basis...lb. .24 - —

R

Resinous oil, No. XI, returnable dms., works..lb. .02 - —

S

Saran F-120 resin, c.l., works.. lb. .57 - —
l.c.l., same basis.....lb. .59 - —
F-122 latex, approx. 56% solids contained, wood bbls. (55 gals.), c.l., works..lb. .40 - —
l.c.l., same basis.....lb. .44 - —
10-gal. bbls., same basis.. lb. .50 - —
Silene (see Calcium silicate hydrated under C in Current Market Quotations).
Staybelite ester, No. 10, non-ret. dms., c.l., f.o.b., customer's siding, zone 1..lb. .25 - —
10 dms., same basis.....lb. .25½- —
1 dm., same basis.....lb. .26 - —
Syntex resins, 9 (or 1922), non-ret. dms., c.l., works, Louisville, Ky..lb. .32¾- —
l.c.l. .....lb. .33¼- —
H12, c.l., same basis.....lb. .30 - —
l.c.l., same basis.....lb. .30½- —
H15, c.l., same basis.....lb. .26 - —
l.c.l., same basis.....lb. .26½- —
16, c.l., same basis.....lb. .37½- —
l.c.l., same basis.....lb. .38 - —
18, c.l., same basis.....lb. .30½- —
l.c.l. .....lb. .31 - —
19-B, c.l., same bahis.....lb. .33 - —
l.c.l. .....lb. .33½- —
23, c.l., same basis.....lb. .30½- —
l.c.l. .....lb. .31 - —

VELSICOL Resins

Classics OF THEIR KIND

for decorative • protective • resistant COATINGS

Velsicol oxidizing and non-oxidizing type resins of petroleum origin offer distinct advantages in the formulation of both air-dry and baked finishes. Desirable physical and chemical properties, ease of formulation, and wide range of application place these resins in a position of incomparable prominence.

Our Technical Staff is at your service for practical information regarding the utilization of these resins in architectural white and pale tint enamels, aluminum vehicles, sanitary can coatings, baking primers and surfaces, and toy enamels.

VELSICOL Corporation

Manufacturers of: Synthetic Resins • Insect Toxicants • Aromatic Solvents • Coresin Core Oils

General Offices: **120 East Pearson Street • Chicago 11, Illinois**

Branch Offices: **NEW YORK • DETROIT • CLEVELAND**

Representatives: E. B. Taylor Co., Los Angeles 13 • E. M. Walls, San Francisco 11 • J. E. Russell, Houston 1

In Canada: Natural Products Corp., Montreal 2

Syntex resins, 23-R, c.l., same basis..lb. .26¾- —
l.c.l. .....lb. .27¼- —
26, c.l., same basis.....lb. .37¼- —
l.c.l. .....lb. .37¾- —
22, c.l., same basis.....lb. .27¾- —
l.c.l. .....lb. .28¼- —
23-R, c.l., same basis.....lb. .23½- —
l.c.l. .....lb. .24 - —
40, c.l., same basis.....lb. .33 - —
l.c.l., same basis.....lb. .33½- —
40-R, c.l., same basis.....lb. .29¾- —
l.c.l., same basis.....lb. .30¼- —
55, c.l., same basis.....lb. .28¾- —
l.c.l. .....lb. .29¼- —
80, c.l., same basis.....lb. .31¾- —
l.c.l. .....lb. .32¼- —
80-A, c.l., same basis.....lb. .31¾- —
l.c.l., same basis.....lb. .32¼- —
116, c.l., same basis.....lb. .22½- —
l.c.l. .....lb. .23 - —
117, c.l., same basis.....lb. .20½- —
l.c.l., same basis.....lb. .21 - —
121, c.l., same basis.....lb. .30½- —
l.c.l. .....lb. .31 - —
217, c.l., same basis.....lb. .31¼- —
l.c.l. .....lb. .31¾- —
1979, c.l., same basis.....lb. .31¼- —
l.c.l. .....lb. .31¾- —

U

U formite (no prices at this time).

V

Vanadiset resins, grade A, 285-300° F, m.p., whse..lb. .018 - .040
H, 245-255° F, m.p., whse.lb. .0250- .050
C, 315-340° F, m.p., whse.lb. .018 - .040
D, 170-180° F, m.p., whse.lb. .018 - .040
MR, 260-270° F, m.p., whse. lb. .014 - .080
pulverized, whse.....lb. .0850- .210
solution, whse.....lb. .4000- .650
Velsicol, resins, AD-6-3, dms., c.l., f.o.b. works..lb. .13 - —
10 dms. up, works.....lb. .13½- —
1-9 dms., works.....lb. .14 - —
AB-11-4, dms., c.l., works, l.c.l., dms., works.....lb. .09½- —
Solutions, AD-660, tankcars, works..lb. .06⅝- —
dms., c.l., works.....lb. .10 - —
l.c.l., works.....lb. .10½- —
AD-670, tankcars, works..lb. .09⅞- —
dms., c.l., works.....lb. .11¾- —
l.c.l., works.....lb. .11⅝- —
AB-400, tankcars, works...lb. .06⅝- —
dms., c.l., works.....lb. .08 - —
l.c.l., works.....lb. .08½- —

Cost of non-returnable drums included in the above prices.

Solvents, No. 1, frt. alld., Mid-west, tankcars..gal. .16 - —
dms., l.c.l., works.....gal. .22 - —
No. 1-A, tankcars, frt. alld., Midwest..gal. .17 - —
dms., l.c.l., works.....gal. .23 - —
No. 2-A, tankcars, frt. alld., Midwest..gal. .20 - —
dms., l.c.l., works.....gal. .26 - —
No. 2-D, frt. alld., Midwest, tankcars..gal. .19 - —
dms., l.c.l., works.....gal. .25 - —
No. 3-C, frt. alld., Midwest, tankcars..gal. .19 - —
dms., l.c.l., works.....gal. .25 - —
No. 3-D, frt. alld., Midwest, tankcars..gal. .18 - —
dms., l.c.l., works.....gal. .24 - —
AR-50, f.o.b. works, tankcars, gal. .34 - —
l.c.l. .....gal. .41 - —
AR-53-A, f.o.b. works, tankcars..gal. .25 - —
l.c.l. .....gal. .32 - —
AR-53-B, f.o.b. works, tankcars..gal. .24 - —
l.c.l. .....gal. .31 - —
Cost of drums, $3 extra remaining customer's property.
Vinylseal, modified, vinyl acetate resin, 24.5% by weight, solution in toluene, T-24-9, non-ret. dms., 20-dm. lots, same basis..gal. 2.00 - —
drum lots, same basis....gal. 2.25 - —
less than drum lots, same basis..gal. 2.50 - —
28% by weight, solution in 32% methyl acetate, MA 26-18, 20-drum lots, same basis..gal. 2.15 - —
drum lots, same basis..gal. 2.40 - —
less drum lots.....gal. 2.65 - —
All "Vinylseal" containers except 5-gal. cbys. non-returnable.

Freight allowed to destinations in New England, Middle Atlantic States, Va., N.C., S.C., W. Va., O., Ky., Tenn., Ind., Ill., Mich., Wis., Ia., Mo. and Minneapolis, St. Paul, and Duluth, Minn. For shipments to all other points in U.S., add ½c. per lb. to c.l. and ¾c. to l.c.l. prices.

Vinyl chloride-acetate, VYLF, VYHH, VYNW, VYNU, VYNV, VYNY, VYNL, powdered, c.l. (30,000 lbs.), paper bgs., f.o.b. cars, South Charleston, W. Va.lb. .33 - —
10,000 to 29,999 lbs., same basis..lb. .34 - —
200 to 9,999 lbs., same basis. lb. .35 - —
1 to 199 lbs., same basis..lb. .51 - —
VYNS, c.l. (30,000 lbs.), paper bgs., same basis..lb. .44 - —
10,000 to 29,999 lbs., same basis..lb. .45 - —
200 to 9,999 lbs., same basis. lb. .46 - —
1 to 199 lbs., same basis..lb. .62 - —
VYCM, powd., c.l., 30,000 lbs., paper bgs., f.o.b. cars South Charleston, W. Va. lb. .38 - —
10,000-29,999 lbs., same basis..lb. .39 - —
200-9,999 lbs., same basis. lb. .40 - —
1-199 lbs., same basis.lb. .56 - —
VMCH, c.l. (30,000 lbs.), same basis..lb. .39 - —
10,000 to 29,999 lbs., same basis..lb. .40 - —
200 to 9,999 lbs., same basis. lb. .41 - —
1 to 199 lbs., same basis..lb. .57 - —
modified, acetate resins, AYAB, lumps (in fiber drums at option of seller); AYAA, AYAF, AYAT, granular (in paper bags only), f.o.b. cars South Charleston, W. Va., freight paid to destination E. of Mississippi River, c.l. (30,000 lbs)..lb. .40 - —
AYAB, AYAA, AYAF, AYAT, 2,000 to 29,999 lbs., same basis..lb. .43 - —
200 to 1,999 lbs., same basis. lb. .45 - —
1 to 199 lbs., same basis.lb. .60 - —
AYAC, gran., fiber dms. at option of seller, c.l. (30,000 lbs.), f.o.b. cars South Charleston, W. Va.lb. .43 - —
2,000-29,999 lbs., same basis..lb. .45 - —

Vinyl, modified acetate resins, AYAC, gran., dms., 200-1,999 lbs., same basis.lb. .47 - —
1-199 lbs., same basis..lb. .62 - —
QYNA, pwd., c.l. (30,000 lbs.), same basis..lb. .33 - —
10,000 to 29,999 lbs., same basis..lb. .34 - —
200 to 9,999 lbs., same basis. lb. .35 - —
1 to 199 lbs., same basis..lb. .51 - —
butyral resins, XYHL, XYHM, XYNC, granular, 96 to 97% solids, prices based on contained solids (in paper bags at option of sellers). 30,000 lbs., f.o.b. cars South Charleston, W. Va., c.l...lb. .62 - —
10,000 to 29,999 lbs., same basis..lb. .83 - —
200 to 9,999 lbs., same basis. lb. .84 - —
1 to 199 lbs., same basis.lb. 1.00 - —

Surplus Materials

—Continued from page 4

Lithium, 184 heat-treating cartridges, 75 cents each.

Methanol, 1,026 gallons, 28 cents per gallon.

Nitric acid, commercial, 3,640 pounds, $4.70 per 100 pounds.

Nitrobenzidinazole, 12 pounds, $8.16 per pound.

Perchloroethylene, 17,500 pounds, 7½ cents per pound.

Petroleum naphtha, aromatic, mixture with butyl alcohol and xylene, 292 gallons, 30 cents per gallon.

Silica gel a large number of lots mostly in small packages, perhaps 50,000 pounds, 8 cents per pound.

Sodium cyanide, 96-98 percent, egg, 4,100 pounds, 12½ cents per pound.

Sodium hyposulphite, anhydrous, 50,325 pounds, 5 cents per pound.

Sodium nitrate, 24,500 pounds, $1.30 per 100 pounds.

Sodium silicate; 9,450 pounds, $1.20 per 100 pounds.

Sodium sulphate, 18,932 pounds, 6 cents per pound.

Solvent, AXS-1245, 15,600 pounds, 5 cents per pound.

Toluene, 865 gallons, 15 cents per gallon.

Xylene, 1,860 gallons, 17 cents per gallon.

Zinc chromate compound, 1,692 pounds, 49 cents per pound.

Current special offerings by WAA in general include:—

Antiseptic foot powder, 3½-ounce cans, located at Atlanta, Binghamton, N. Y.; Cincinnati, Lathrop, Cal.; Louisville, St. Louis, San Diego, and San Francisco, priced at 7 cents a cover to wholesalers, in lots of 1,000 cans.

Pentothal-sodium ampuls located at Binghamton, N. Y.; Cincinnati, Louisville, and Seattle in cases of 300 with 300 ampuls of sterile water, priced at $80 a case for 0.5 grain ampuls and $105 a case for 1 grain ampuls.

Pigments Plant Of Reynolds Damaged

Considerable damage to buildings and equipment was caused by a fire and explosion which occurred on February 24, at aluminum pigment plant No. 3 of the Reynolds Metals Company, Louisville, Ky., according to I. P. Macauley, vice-president in charge of the Reynolds Pigment Division. None of the more than 100 employees in the plant at the time were injured, Mr. Macauley stated, adding that the full extent of the damage has not yet been determined. The fire originated in that portion of the plant where fine grades of pigments are manufactured.

WAA to Release Cars For Liquid Gas Use

War Assets Administration has been directed by the Civilian Production Administration to relieve some 423 precious tankcars from the government's surplus supply to meet a critical shortage for transportation of liquified petroleum gas. The cars will be disposed of by WAA in accordance with directions from the Office of Defense Transportation.

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Stability Must Be Planned

Out of the argument on a stabilized national economy it steadily becomes inescapably evident that there can be no stable economy that is not a planned economy. There can be no stabilized employment—to state it popularly, no annual wage—without stabilized production. There can be no stabilized production without stabilized distribution. Seasonal fluctuations and other successions of peaks and hollows must be eliminated—and so must narrowly defined jobs and the jurisdictional concomitants thereof.

The man who wants year-round work, must adapt himself to the demands of such activity. The same is true of the creator and provider of year-round employment. Work without production, directly or contributorily resulting, is useless. Compensation for such "work" (?) is incompatible with industry—and integrity. Production without consumption is—asinine, as has more than once been demonstrated in the recent past. A stabilized economic process must be blueprinted in advance, from the first step in raw materials to the last step into ultimate consumption. Its operations must be definitely predetermined and inexorably adhered to. There can be no planning for you without commensurate planning for me. We both must know what is expected of us—and we must do it in full measure.

The planning of a stabilized economy must be fully coordinated and fully cooperative. It is common to declare that stabilization must begin with distribution; that the more or less accurately estimated capacity of the consuming market must set the year's goal. The unknowns and the variables in that method are many and potent. It is more within the practicabilities of human wisdom to start at the other end. The producer of primary materials knows closely what he can do under optimum year-round operating. With that information, the next-step processor can make a similar determination. And through the subsequent steps, practicable allocation can be carried to the purveyor to the public.

Under any plan for a stabilized economy, there will be individual disappointments for those who prefer to get while the getting is good. But, under the proper plan, tomorrow will always be at least a little better than today.

Building Needs Help

Those who set themselves up as knowledgeable in the matter are pronouncing that the shortage of building materials is permanent. That—except in relation to feminine coiffures—is a very long time. So, it behooves science, as the more or less omnipotent servitor of mankind, to step in and do something about it. The need for buildings also is permanent, and it is most undesirable that the lack thereof should be.

In the popular concept of the future of building, the new plastics reign supreme. But, the practical man knows that there is more promise in the plastics of yesteryear and antiquity—glass and clay. Synthetic chemistry is wonderful, but the utilization of natural products has not reached the limits of possibility. And in the combination of the two the needs of building materials can find much of contribution.

Our old, more or less friendly acquaintances, the weeds, enter here in one role. Subjected to the wizardry of cellulosic and resinous plasticization and the simpler services of heat and pressure, almost any "plant which grows where not wanted" (a congressionally proposed definition of a weed) can be converted into a serviceable substitute for naturally produced wood.

Perhaps the transformation of the granitic knobs of the Appalachian and Laurentian ranges into tractable building blocks must await that glamorous harnessing of the power of atomic fission of popular "science," but it is not beyond the practicable power of science to reduce the time and the cost of transforming clay into construction materials, and at the same time to improve the product, maybe by means of a relatively simple crossing of brick and glass.

Physical chemistry and its complemental engineering certainly cannot permit mankind to be inadequately housed—permanently.

Washington Talks It Over

—Continued from page 5

needed in time to cause no interruption to the building program. The Office is attempting to help the industry meet this problem and has drawn up a schedule of distribution dates for areas where the greatest need for house paint appears to exist, which it has sent to all the major producers.

The industry is facing a major task this year in supplying house paint needs. During 1946, over 1,000,000 dwelling units were started and more than 660,000 were completed. This year, the Housing Expediter is expecting a high rate of new construction to be maintained with particular emphasis on apartment houses. Moreover, during the year, over 500,000 units which were in the process of construction on January 1 must be completed.

Such a large volume of new "starts," plus the large carryover from last year, poses a real problem for all the industries that manufacture building materials. The paint industry will have to use all of its ingenuity and aggressiveness if it is to carry through its offer of full cooperation in meeting the demands of home construction. The job will require not only expanded production of house paints, but also careful distribution of supplies.

Farm Bureau's Demands

The American Farm Bureau Federation has reopened its drive to put the government into the fertilizer production business, but the tone of its demands isn't quite as sharp as before. From what its spokesmen have said before congressional committees recently, industry can expect the federation to make some concessions as to details, but not on principles. Here's the way they have expressed their demands this year:—

"We favor a national soils fertility program which will encourage the fertilizer industry to increase its production of both low and high-grade phosphate and potash. Farm organizations should acquire adequate natural reserves of phosphate and potash for developing a reasonable percentage of needed plant capacity for the production and distribution of high-concentrated materials.

"Tennessee Valley Authority should be authorized to acquire reasonable phosphate reserves in the Florida area and to construct an experimental blast furnace phosphate plant in the Mobile area to develop new processes and new forms of concentrated fertilizer, but definite provision should be made for the disposal of this plant to a private agency within a reasonable period.

"The test demonstration program should be expanded under the direction of the Secretary of Agriculture, in cooperation with the land-grant colleges and the TVA, to a reasonable number of farms. A program should be developed for the conservation and utilization of phosphate and potash resources in the inter-mountain area for the benefit of farmers."

Congressional Spot Check

There is a movement on foot in Congress to stretch the intent of the congressional reorganization act not only to cleaning its own house, but that of the executive branch of the government as well.

Senator John L. McClellan of Arkansas has a bill to organize a special committee of the senate and house to look into the matter of how the laws enacted by Congress are administered by the various departments and agencies. The idea is to make a spot check every so often to see what the departments are doing, and particularly whether the departments are handling their affairs efficiently and without waste of the taxpayer's funds.

Whether Mr. McClellan will get very far with his proposal remains to be seen. Certainly the departments are not going to favor it, and the appropriation committees themselves are not likely to support it. They make such investigations every year during consideration of the appropriation bills and couldn't expect to welcome another committee checking up on their efforts.

More Bees Needed

Need for honey to supplement the sugar supply is not the principal explanation for the 1947 "goal" increasing by six percent the number of colonies of bees, as listed in the farm production program for the year.

The primary reason for this increase, which follows an increase recommended for 1946, says Harold J. Clay of the Department of Agriculture, specialist in honey marketing, is that the weight of supporting evidence has shown that the food economy of the nation depends on having more honey bees to replace the bumblebees, solitary bees, and other pollinating insects.

These insects, Clay points out, are being lost in ever larger quantities through increasing use of insecticides, and because of increased attention being paid to clean cultivation of crops and of many orchards. Both these practices have destroyed the homes and prevented the natural increase of countless millions of earth-dwelling insects that played an important part in the pollination of fruits, vegetables, and field crops.

DDT Helps Cattlemen

DDT had what seemed a big year in 1946; but, from reports reaching the Department of Agriculture, DDT is really going into the cattle business in 1947. Last season was the first in which civilians could really make large-scale tests of the effectiveness of DDT in protecting beef and dairy cattle from the fly nuisance. Some of the results reported seem fantastic and hard to believe.

On a Kansas cattle ranch, 601 animals were sprayed three times during a sixty-day test period at the height of a bad fly season. They were compared with unsprayed animals that had to fight the flies. The DDT-sprayed animals gained 18,030 pounds more than the unsprayed animals. It took 15 pounds of DDT powder in 900 gallons of spray to do the job. The gain was 1,202 pounds of beef for each pound of DDT. A second ranch netted 1,283 additional pounds of beef for each pound of DDT in the sprays. A third ranch did far better and registered more than a ton of additional beef, 2,306 pounds, to each pound of DDT.

Dairymen from several States reported that milk production held up during the fly season where a drop of from 5 percent to 15 percent was the rule before DDT controlled the flies.

These were good trades and meant money in the bank for the owners of the herds.

Freedom of Music

The fact that a circuit court of appeals recently held the congressional attempt to curb the activities of "Little Caesar" Petrillo unconstitutional doesn't disturb Representative Clare Hoffman, of Michigan. He has bounced right back with another bill that is even broader in scope than the law knocked down by the circuit court.

Mr. Hoffman is labor's bitterest foe on Capitol Hill. He has sponsored more antiunion legislation than anyone else and has out-talked every other member on this subject. The fact that none of his bills has ever got anywhere doesn't deter him from trying again. His latest slap at Petrillo is a bill "to restore one of the four freedoms and to prevent interference with the freedom of speech and a free press."

He proposes to throw in jail for five years and fine them a maximum of $5,000 anybody who intentionally or willfully interferes in any way with the lawful production, transmission, transportation, dissemination, or movement of any music, musical program, or radio broadcast from any point within continental United States.

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Heavy Chemicals

Shortages of heavy chemicals gave no sign of easement last week. The overall demand was active with the chief movement confined to shipments against contract accounts. Consumers of the heavy tonnage chemicals who do not hold contracts have found it exceedingly difficult to locate any available stocks. The serious boxcar shortage has tended to delay shipments from works while the scarcity of tankcars combined with the stringency in metal and glass containers has added to the difficulty in moving material from producing plants. Aside from this, power limitations and repair work have operated against the maintenance of plant capacity.

Resumption of production of both tin crystals and tin oxide was recorded. Certified buyers can now obtain these chemicals for special lines of consumption. A prominent producer of calcium chloride has abandoned the established policy of selling this chemical by zones and is pricing this material from works. So far as is known, other producers have not changed from quoting at the zone basis. An advance in the price of pig lead has created a firmer background for acetate of lead. Producers of chlorate of potash have brought that market into better balance, but chlorate of soda shipments have continued behind schedule. Copper hydrate has developed a tighter condition with more demand than supply at present. Conditions in soda ash and caustic soda have not improved. These markets are definitely tight along with all the other affiliated chemicals. A prominent producer of anhydrous ammonia in cylinders will advance the price on April 1 and bicarbonate of ammonia will also be revised upward on that date.

Paper production as a percentage of six-day capacity was 104.9 in the week ending February 21, according to the American Paper and Pulp Association. This compares with 104.5 the previous week and 98.0 percent a year ago.

Ammonia Anhydrous—One of the major producers will make a revision in prices for this material in cylinders on April 1. In the eastern area the delivered price will be 16c. per pound. The extreme range will be from 16c. to 20½c. per pound delivered, according to zone. Story on page four.

Ammonia Bicarbonate — Higher prices beginning April 1 will be made effective by one of the major producers. The advance will average about one cent per pound making the price in New York City 0.0675c. per pound against a former figure of 0.0564c. The upward revision is based on increased freight and other costs. Story on page four.

Ammoniac Sal — Maintenance of heavy industrial demand has prevented any appreciable improvement in the market's supply of white granular. Inquiry for use in dry-salt batteries has been sustained at an unusually high level and the call for use in the hide and leather industry has been increasing. It has been difficult to hold production at capacity owing to interruptions resulting from insufficient power. The present market is described as tight.

Antimony Oxide—Firm and finding a steady outlet. Most domestic requests have been allocated in full while a limitation on export orders has restricted foreign trade. Suppliers have kept shipments close to scheduled requirements.

Antimony Sulphide—Supplies have continued sufficient to satisfy current demand. Shipments have covered allotments as per schedule. Antimony chloride has not commanded much attention of late but stocks are available at former prices.

Bauxite—Domestic production of a third of a million tons of crude bauxite in the third quarter of 1946 was the greatest since the end of 1944 and exceeded that of any quarter prior to 1942, according to the Bureau of Mines. The output, partly estimated, was 341,079 long tons (289,917 tons dried equivalent) in the third quarter, a gain of 13 percent over the 303,163 tons (257,689 tons dried equivalent) produced in the second quarter. Arkansas mined 95 percent of the third-quarter production, and Alabama, Georgia, and Virginia together furnished the remaining 5 percent. Imports of bauxite in the third quarter were 260,754 long tons, 32 percent greater than in the previous quarter. Almost all of it came from Surinam. Imports comprised 47 percent of the new supply in the third quarter of 1946 compared with 20 percent in 1942-44 and 54 percent in 1925-41.

Cadmium Metal—Short and firm at the recent advance. Stocks moving in odd lots at $1.75 per pound. Low production has kept the market in a definitely tight condition.

Calcium Chloride—One of the major producers has dropped the method of quoting by the zone system and is naming $22 per ton for flakes in moisture proof paper bags works freight equalized with Midland, Michigan and Syracuse, New York. The price of 40 percent calcium chloride liquor is $9 per ton in sellers' tankcars with an allowance of 40c. per ton when shipped in buyers' tankcars, freight equalized to the above points. This is a departure from the previous zone delivered price policy for the sale of this commodity which has been in effect for the past several years. In other large producing quarters no change from the zone method was made and there were no price revisions reported. The market situation was about as tight if not tighter than at any time since the war with no apparent easement of supplies in sight over the remainder of the year. Demand is appreciably ahead of production and in some trade circles it was stated that current capacity is equal to about 70 percent of requirements.

Carbon Tetrachloride—No appreciable improvement in the supply situation. Major producers are heavily sold against contract accounts and stocks available for additional requirements have continued exceedingly low.

Copper Hydrate—More demand for this chemical than current production can handle readily. Shipments are running behind contract schedules at present.

Manganese Acetate — Firm under moderate buying interest. Stocks not excessive but sufficient to meet current requirements.

Manganese Chloride—Difficulty in securing basic materials has kept production down but so far buyers have not experienced much difficulty in covering wants.

Manganese Dioxide — Reported in fair supply at present. Shipments are leaving producing points on a fairly prompt basis and the movement has not inconvenienced consumers to any unusual extent.

Manganese Naphthenate — Supply position has tightened with producers experiencing difficulty in obtaining sufficient basic materials. It was stated that output of naphthenic acid was down as a result of the shortage in caustic soda.

Nickel Carbonate—Shipments are behind regular contract schedules owing to the inability of producers to obtain enough soda ash to keep plants at capacity.

Nickel Sulphate—Increased production has improved the supply position of this market and allowed carlot

For Late Market Developments, See Page 4

Market Trends

Prices Advanced

None

Prices Reduced

None

Comparative Price Indexes

General Chemicals

(100=August 1, 1914)

Last week.	Prev. week.	Last month.	Last year.
194.5	194.5	194.5	168.9

Acids

Last week.	Prev. week.	Last month.	Last year.
119.1	119.1	119.1	116.0

(For Current Prices see Page 9)

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shipments to be made on a prompt basis from works.

Potash Carbonate—Buyers are finding this market in definitely short supply. Demand has continued to exceed production and, while contract accounts are receiving shipments, there has been no opportunity to build up any reserve stocks. The shortage of boxcars has caused some delay in moving material from works.

Potash Caustic—Supply has continued short in both the dry and liquid forms. Producers have made every effort to meet contract requirements but have been unable to keep the movement up to schedule. Here, also, the boxcar and tankcar shortages have retarded shipments.

Potash Chlorate—Progress has been made in catching up with scheduled requirements. The movement during the week has increased and the match factories as well as other consumers have received shipments of better dimensions than noted a month ago.

Saltpeter—Double refined saltpeter prices have been revised. The market for granulated in barrels is quoted at $8 for 20 tons or more and at $9 to $9.50 per 100 pounds for less. Powdered is held at $9 for 20 ton lots and at $10 to $10.50 per 100 pounds for less. Small crystals are quoted at $12.40 for 10 to 19 tons and at $12.65 to $12.90 per 100 pounds for less. All prices are f.o.b. New York. Kegs command $1 per hundred pounds above barrel prices. Stocks are not free but are sufficient to meet current requirements. Export demand, mostly from South America, was reported active with business restricted through the difficulty in securing licenses.

Soda Ash—No nearby easement in sight from the tight supply position of soda ash. It was stated that this year's estimated production of 3,200,000 tons will not be sufficient to meet requirements and, although expansions are under way to increase this output to 3,700,000 tons in 1948, the shortage of stocks will exist until production levels off demand.

The grave shortage of coal in the United Kingdom has reduced drastically the production of soda ash, according to British chemical advices. Major producing companies were down in January to 40 percent of the November production. Progressive reductions begun in December had already lowered output to 65 percent of the November figure, but receipts of fuel were only a little more than half the amount required to maintain even that production. One of the principal works was closed during the first part of January as part of the reduction program.

Soda, Caustic—Demand appears to be far enough ahead of supplies to suggest tight buying conditions indefinitely. Current production for sale is estimated at 1,700,000 tons for 1947 and known expansion plans will increase output to 1,800,000 tons in 1948. Requirements have expanded in much greater proportion than output and this makes a difficult buying proposition. Distribution has been interrupted by the boxcar, tankcar and steel drum shortages and in some instances, plant capacity has been hampered by insufficient power. It is stated that British production has been reduced by the scarcity of fuel and that Germany is turning out little of any material.

Advices from Argentina state that the establishment of a plant to produce caustic soda and related products is included in the Argentine Government's plans for future industrialization. It is understood that this plant will be financed by the Trade Promotion Institute.

Soda Chlorate — No improvement could be noted in the supply condition of this market. Demand has topped current production and stocks for immediate or prompt shipments were exceedingly short. The market is feeling the impact of a heavy miscellaneous demand, quite aside from the usual heavy weed-killing inquiry.

Soda Metasilicate — Contracts have been accepted for the anhydrous grade on the basis of $4.00 per hundred pounds, f.o.b. works, no freight equalization. Crystals are held at $3.00 per 100 pounds in bags and at $3.40 per 100 pounds in barrels, carlots at the works. Less than carlots of crystals delivered Metropolitan New York are priced at $4.35 for lots 3 to 29 bags, $4.10 per 100 pounds for lots 30-59 bags, or $3.90 per 100 pounds for lots 60 or more bags. For shipment in barrels add 40c. per 100 pounds to the bag price.

Soda Nitrite—Buying interest, including the dyestuff trade and the meat packers, has been sustained at an unusually high level. Production has been temporarily overtaxed to meet requirements and the tight supply position of the market has not been relieved.

Tin—It was stated in recent dispatches from London that the United Kingdom will have only small quantities of the metal available for export during the next few weeks. It is expected that the fuel shortage may delay shipments from Malaya. Reports were current that Dutch interests expect to increase production of tin concentrates to the rate of 51,000 long tons a year by the end of 1947. A deal has been closed to ship about 25 percent of this year's production to the Texas City tin smelter. The settlement basis is 70 cents per pound of tin contained, Gulf ports.

Tin Crystals—Based on the market for Straits tin at 70c. per pound, suppliers quote the market for tin crystals at 48c. per pound, works, to buyers who have complied with government regulations. The market is governed by the value of Straits tin and varies accordingly with the price of the metal.

Tin Oxide—Allocation of pig tin for use in some industries has permitted production to be resumed. Certified buyers can purchase this chemical at 72c. per pound in barrels on spot. It has been a long time since this material was available in commercial quantities. Production has been restricted by the shortage of tin metal. The old quotation was 54c. per pound.

Acids

Chromic—Moving against domestic accounts, but not in sufficient quantities to level off demand. Constant drain of production has not permitted any surplus stocks while industrial demand has been increasing.

Hydrofluoric — Maintained a relatively tight supply condition with the movement interrupted by the scarcity of containers. Buying interest continued steady and the market's price structure remained firm.

Muriatic—Former price levels were sustained with industrial demand steady and fully up to current production capacity. Container shortage has caused some delay in shipments.

Nitric—Absence of excess offerings has held the market in a tight condition. The scarcity of carboys has made it difficult for producers to maintain a steady flow of acid from plants.

Oxalic—Has not emerged from its definitely short supply condition. Production has continued down and the movement from works has remained emphatically below scheduled requirements. The critical shortage of available stocks has created a difficult buying situation which shows no sign of nearby improvement.

Sulphuric — Heavy consuming demand has continued to feature the market with suppliers experiencing considerable difficulty in securing enough tankcars and glass containers to maintain an even flow of acid from producing plants. This condition has resulted in shortages in some areas. The absence of excess stocks has kept the general market in a tight condition.

Monsanto Chemicals, Ltd., London, has appointed F. S. Mortimer head of the industrial and public relations department.

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The principal buildings are: Acid Concentrator, 46,000 sq. ft.; Acid Making, 8 floors, 25,000 sq. ft.; Catalyst, 3,800 sq. ft.; Two Anhydride Making, one of 92,000 sq. ft. and the other 49,000 sq. ft.; Anhydride Refining, 8 floors, 55,000 sq. ft.; Steam Plant, 55,300 sq. ft.; and Refrigeration Plant, 13,000 sq. ft. Remainder of buildings include: Office, Laboratory, Storage, Pump House, Maintenance, etc. Plant is completely equipped for the manufacture of the chemicals mentioned above. Included are such items of production equipment as: catalyst units, preheaters, condensers, coolers, exchangers, vacuum jets, desuperheaters, refrigeration units, boilers, furnaces, decanters and overflows, coal and ash-handling systems, aluminum and wood tanks, etc.

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Data herein are necessarily abbreviated and are not intended for use as a basis for negotiation.

Final written proposals for the purchase or lease of "Plant A—Holston Ordnance Works" in its entirety, or any portion thereof, will be received by the War Assets Administration, Office of Real Property Disposal, P. O. Box 1172, Nashville, Tennessee, until 11:00 A.M., C.S.T., Monday, March 31, 1947, at which time all proposals will be publicly opened and read. Information on how to prepare and submit a proposal may be obtained from any War Assets Administration Regional Office.

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Chemicals Outlook Described by OTC

The chief problem facing the chemical industry in 1947 involves the steps to be taken to achieve an equitable distribution of the many items in short supply until productive capacity can be stepped up to meet demand, Major-General P. B. Fleming, administrator of the Office of Temporary Controls, said in a report on the "Production Outlook for 1947."

Inventories are not considered excessive, General Fleming said. In spite of widespread caution of the 1947 outlook, General Fleming said that expansions are still being made in the chemical industry. He added that it takes from 18 months to two years to build a soda ash producing unit, yet capacity is being expanded on a moderate scale. Likewise, he said, additions have been made to the facilities for producing titanium dioxide. The wood rosin industry, General Fleming said, anticipates that a new unit will come into production in April, 1947, and other facilities are being expanded for the production of pharmaceuticals.

The chemical industry generally, General Fleming said, is meeting requirements for its products. Of the hundreds of thousands of chemicals known, only a very few of the basic heavy chemicals, drugs, plastics, paints and byproducts from the coke oven are in short supply, he added.

Tainton Estate Assets Acquired by Freeport

Freeport Sulphur Company, New York, has acquired assets of the estate of the late U. C. Tainton, metallurgist and inventor, and will carry on research and development work at the Tainton laboratory in Baltimore, Langbourne M. Williams, jr., president, has announced.

The assets, acquired as part of Freeport's expansion program, include various processes, products, inventions, domestic and foreign patents and laboratory facilities. Laboratory operations will be continued by the present technical staff as a new division of Freeport, to be called Tainton Products Company, under the direction of Charles D. G. Breckinridge, manager.

Mr. Tainton, who died in 1945, was the inventor of the so-called Tainton process for production of electrolytic zinc, of electrogalvanizing of steel products, of metal cleaning processes and of various other processes and products.

Trade Briefs

Acme Aluminum Alloys, Inc., Dayton, Ohio, has elected to the board of directors Dr. Hugh S. Cooper, director of research for the company.

Witco Chemical Company, New York, has appointed Frederick C. Wissemann assistant treasurer. He has been associated with the company since 1937.

Sterling Point Frosted Foods, Jersey City, N. J., has been named exclusive Metropolitan New York distributor for Maxson food systems frozen products.

Chas. Page & Co., chartered under Delaware laws to deal in chemicals, ores and metals, will maintain its principal New York office at 50 East Forty-second street.

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Pitts. Glass Issues Caustic Soda Data

The Columbia Chemical Division of the Pittsburgh Plate Glass Company has prepared an elaborate seventy-two page booklet designed for use by technical men, buyers and executives interested in the economics of caustic soda. Copies may be obtained by requesting Form A-100 at the division's offices, Fifth avenue at Bellefield, Pittsburgh 13.

Peppermint Oil Duty

—Continued from page 3

production. He said that it was understood that the Russian industry was located in an area that was devastated by the war and therefore it probably would take some time to get back into production. He added that inquiries would be made of the American Embassy in Moscow for further information in the industry.

Noting Mr. Gillie's fears of a cut in the tariff, Mr. Thorp pointed out that American exports of the oil had exceeded imports, but added that just because this commodity was on the list of commodities that will be discussed in the forthcoming trade negotiation did not necessarily mean that the tariff was to be reduced.

He stated that the binding of a duty at its present level is regarded by this government as a sufficient concession to make to another country in some instances. He also said that any concessions that are written into the new agreements will be subject to provisions permitting the withdrawal of the concession in the event an unforeseen increase in imports threatens the essential operations of an industry.

ITO Hearings

—Continued from page 3

language it is voluminous, wordy, difficult to study and comprehend, and frequently ambiguous and lacking in clarity, he stated. It sets forth many basic principles, he added, and then proceeds to riddle them with exceptions, so that it ends by blessing not only the desirable world trade practices, but virtually all the undesirable ones as well.

He said that the time has come to make a fresh and objective start on the charter with a view toward clarifying and simplifying its language into easily comprehended terms. Mr. Anthony declared its tasks and principles should be limited to a few basic ones and later the organization might be permitted to explore larger fields if its initial experience justified such expansion of authority.

Tariff Barriers Out

The charter was criticized in similar terms by Dr. John Lee Coulter, consulting economist of the National Renderers Association, who said that as now drafted it would commit this country to a policy of removing every tariff barrier, every trade restriction, and every quantitative limitation on imports with the result that the United States standard of living would eventually be dragged down to the equivalent of the lowest living standard found anywhere in the world.

He recommended that the charter be modified to emphasize research, statistical and advisory services rather than administrative and executive functions, and suggested the creation of a National Tariff and Foreign Trade Board to carry out programs for supervision and regulation of foreign trade developed in cooperation with the ITO.

In establishing the association's position, Dr. Coulter stated that the members of the association are prepared to recognize that certain quantities of imported oils and fats may be essential to the domestic economy because of certain properties not found in domestically produced fats and oils, but, he emphasized, these producers are not prepared to agree that unlimited quantities of such materials should be allowed to enter this country free of all types of restrictions.

More Liberalized Trade

Charles R. Carroll, of the National Foreign Trade Council, pointed out that the council last November endorsed the objectives of more liberalized trade which the proposed charter is designed to achieve, but added, however, that the endorsement at that time did not imply approval of all detailed provisions.

On the whole, the council approved the chapters of the proposed charter dealing with economic development, general commercial policy and intergovernmental commodity agreements, and disapproved the chapter dealing with employment.

The council felt that the charter would be immensely improved by the inclusion of multilateral commitments

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which would set up adequate safeguards against destructive or discriminatory political action, on which investors might rely.

Other subjects omitted from the charter, the statement pointed out, include the matter of access, on equal terms, to the raw materials of the world, and the protection of industrial and intellectual property.

R. S. Delapenna, president of the Olive Oil Association of America, endorsed the plan for the ITO, stating that the United States could cut tariffs 50 percent and still have imports total no more than 5 percent of the aggregate goods sold in this country.

Standardization Proposed

Proposing inclusion of machinery to simplify international trade by standardizing consular certificates, certificates of origin, and marks of origin, H. F. Cook, speaking for the Federated Association of World Traders, said that pressure should be exerted on the consular staffs of all countries to insure impartial treatment to all parties and to establish business hours at consular offices which would not work hardships on traders in the submission of papers.

Mr. Cook asserted that the current early closing of consular offices often results in fines being levied against persons filing papers after sailings. Urging the revamping of situations detrimental to trade in some countries, Mr. Cook said that the ITO should attempt to enforce a change of salary policies in countries where customs officials are not paid a standard wage but receive a percentage of fines received by the customs houses.

I. B. Catz, representing the American Spice Trade Association, the Association of Food Distributors, and Catz American Company, proposed the inclusion in the International Trade Organization of a method to assure international recognition of arbitration awards arrived at in one country. Mr. Catz said that the spirit of the charter, requiring absolute cooperation on the parts of all nations, was more important than the charter itself.

The Export Managers Club of New York, through its president J. C. Tweedell, "highly approved the principle of the establishment of the organization but did not approve all the provisions of the draft proposed. It urged that United States negotiators seek positive affirmations for the maintenance of private initiative and enterprise in world commerce.

Charles A. Richards, director of the export division of the Interchemical Corporation, New York, speaking on behalf of the Commerce and Industry Association of New York, gave general approval to the proposed charter but pointed out that in order for our government to conform in practice with the purposes of the charter, simplification and modernization of our own custom laws are necessary.

The association, Mr. Richards said, soon will present to Congress a number of proposed amendments to the Tariff Act to expedite customs clearance of merchandise and the final determination of duties.

Truman Inserts 'Escape'

—Continued from page 3

curb the revolt among the Republicans in congress against the reciprocal trade agreements program.

Insertion of the so-called "escape clause" in any reciprocal trade agreement heretofore has been optional with the interdepartmental committee on trade agreements. While it has been contained in a few of the agreements, notably the agreement with Canada, this was more or less the exception to the rule. Under the executive order now issued, the committee is bound to insert it in all pacts.

'Escape Clause' Provisions

The "escape clause" provision of the order provides that it shall be invoked whenever "as a result of unforeseen developments" the imports of any article flow in such increased quantities and under such conditions as to cause, or threaten, serious injury to domestic producers of like or similar articles."

The United States then may withdraw this particular concession in whole or in part or modify it to the extent or for such time as may be deemed necessary.

In a formal statement announcing his order, President Truman said:—

"I wish to reaffirm the faith of this administration in the Cordell Hull reciprocal trade agreements program which became effective in 1934 and which has been extended by congress all these years. The program is based on the principle of negotiation between this and other countries for the reduction of trade restrictions and elimination of discrimination on a mutually advantageous basis; for each concession granted the United States, a corresponding concession is received. This program has become an integral part of our foreign policy, and has widespread support from industry, labor and the farmers.

"I am today issuing an executive order which formalizes and makes mandatory certain existing trade agreements procedures and which, in addition, makes some procedural changes. I wish to make clear that the provisions of the order do not deviate from the traditional Cordell Hull principles. They simply make assurance double sure that American interests will be properly safeguarded.

"This order is the result of conversations between Undersecretaries of State Acheson and Clayton and Senators Vandenberg and Millikin and has been carefully considered by the interdepartmental trade agreements organization. This organization is composed of representatives of the Departments of State, War, Navy, Treasury, Agriculture and Commerce and the Tariff Commission.

Senators Consulted

"The United States is preparing to meet with eighteen other nations in Geneva on April 10 to negotiate on policies affecting world trade. We plan to complete the draft of a charter establishing common principles of world policy and setting up an international trade organization. We shall also negotiate the reduction of tariffs, the removal of other barriers to trade and the elimination of discriminatory practices. I am very happy that Senators Vandenberg and Millikin agree that we should go forward with the Geneva negotiations.

"All of us must recognize that bipartisan support of our foreign economic policy as well as of our foreign policy in general is essential. If we are to succeed in our efforts, through the United Nations, to organize the world for peace, we cannot refuse our cooperation where economic questions are involved. Here, as elsewhere in our foreign relations, we must abandon partisanship and unite in our support of a foreign policy that serves the interests of the Nation as a whole."

Calcuim Chloride

—Continued from page 4

freight equalized with Midland, Mich. and Syracuse, N. Y., in seller's tank cars, with an allowance of 40c. per ton when shipped in buyer's tankcars.

For less than carload lots of flake calcium chloride, the following schedule applies at recognized stock points ex-warehouse, or for delivery to customer's sidewalk within recognized local trucking distance of the seller's warehouse or f.o.b. railroad station at stock point city.

For 5 to 15 ton lots, add $10 per ton to the delivered carload price. For one to 5 ton lots, add $15 per ton to the delivered carload price.

The one to 5 ton price is quoted per 100 pounds, to which is added 25c. per 100 pounds quantities of 4 to 20 bag lots; 50c. per 100 pounds for three bags lots; 75c. per 100 pounds for 2 bag lots; $1 per 100 pounds for single bag lots.

In all cases when quoting on a per 100 pound basis, values in the third decimal place are dropped to arrive at the price per 100 pounds.

For dichromate-treated flake calcium chloride, the price is $2 per ton higher. For dichromate-treated 40 percent liquor, the price is $1 per ton higher than the untreated.

For powdered calcium chloride in 100-pound moisture-proof paper bags, add $6 per ton to the price of flake in 100-pound paper bags. On all contract tonnage, this price change will be made effective April 1, 1947. Discount terms one percent ten days, 30 days net.

Glass Container Output Up

Glass container production totaled 11,200,000 gross in January, according to preliminary figures of the Bureau of Census. This represents an increase of 19 percent over December, 13 percent over the output in the corresponding month of 1946, and 5 percent over production in August, 1946, the previous high mark.

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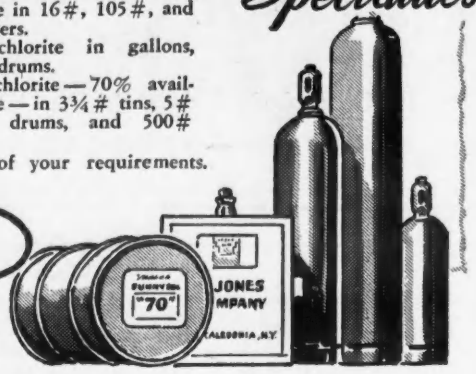

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Wartime Technical Developments Indexed

OPD Washington Bureau

A comprehensive index guide to the reports on wartime technological developments in the United States, Germany, and other countries has been prepared by the Office of Technical Services, Department of Commerce, John C. Green, director has announced.

The Index is intended for use with OTS' weekly Bibliography of Scientific and Industrial Reports. Published weekly since January, 1946, the Bibliography lists all reports acquired by OTS and contains a brief abstract of each.

The new Index to the Bibliography of Scientific and Industrial Reports contains about 45,000 cross reference entries classified under major subject headings. Each entry lists the file number of the report and refers to the page number of the Bibliography on which an abstract of the report appears.

The Index to the Bibliography of Scientific and Industrial Reports may be purchased from the Superintendent of Documents at 50 cents a copy. The weekly issues of the Bibliography itself (not including the index) are available from the same source at a subscription cost of $10 a year. Subscribers to the bibliography must purchase the Index separately.

Textile Sizing Discussions Scheduled

The Textile Research Institute Inc. announced a series of scientific round-table conferences on textile sizing, which it is co-sponsoring this spring with leading textile schools. The first of the series will be held in Philadelphia, March 7, in co-sponsorship with the Philadelphia Textile Institute. Dean Richard S. Cox, of the Philadelphia school will be host and the group will assemble for supper at the Engineers Club. The second of the series will be held in New York, March 21 at the Biltmore hotel, solely sponsored by the institute.

The third conference will be held in Boston on March 28. This New England meeting is being co-sponsored by the Lowell Textile Institute, the Textile Division of Massachusetts Institute of Technology and the Textile Research Institute.

The last of the conference series for this spring will be held in Charlotte, North Carolina, on May 2. Both the Clemson Agricultural College and North Carolina State College, schools of textiles are participating in the co-sponsorship.

The purpose of the conference is to pool existing knowledge on sizing and to develop, through discussion, sound principles, the objectives of future research and the qualities to be sought in sizes for various yarns and fabrics. Scientists and production men from all branches of the textile industry are being invited to attend.

Celanese and Petrolite Patents Released by OAP

OPD Washington Bureau

In notices published February 20, the Office of Alien Property, Department of Justice, stated its intention to return, on or after thirty days, the following vested property:—

Celanese Corporation of America, United States Letters Patent No. 1,880,067.

Petrolite Corporation, United States Letters Patent No. 2,000,018.

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Textile and Leather Chemicals

Consuming inquiry for tanning materials improved last week. Tanners were in the market for replacements of quebracho extract, tara powder and wattle bark and extract. Offers of shipment of these materials continued scarce and prices were strong, especially for wattle bark which were advanced. Quebracho shipments from the Argentine were reported gradually increasing and were expected to reach sizable totals during the next month.

Owing to the increased cost of production and higher transportation rates of basic materials from primary centers, fustic, logwood, hematine, hypernic, osage orange and quercitron extracts were advanced one cent per pound for liquid and three cents per pound for crystals, last week. The increase approximated to 6 to 8 percent.

Firmness featured the sizing materials market, notably for cornstarch and potato starch. Production of cornstarch and dextrin was readily taken by consumers against current orders, and little, if any resale material was available. Export business was affected by the lack of resale stocks, with exporters willing to pay premiums for supplies. Excellent request for potato starch for export and domestic use has cleaned up production through April. Inquiry was keen for additional quantities.

As a result of the strength in the egg market, the supply situation in egg albumen and yolk has become tighter, and the trend of prices appears upward. Some producers withdrew from the market. New season's production has begun in Texas, but was reported small owing to the light receipts of eggs.

Chemicals

Bichromates—This market remains in strong position. Production was reported below a year ago and was readily absorbed against current contracts. Export inquiry was active, but shipments were limited owing to scarcity of supplies. Prices were firm.

Prussiates — Steady demand was noted for prompt delivery. Prices were well maintained for all grades.

Soda, Acetate—Market continued on a steady basis. Demand was moderate and mainly for prompt delivery. Quotations were firm.

Soda, Hydrosulphite—Deliveries on contracts were reported in good request. Prices were unchanged and steady.

Sulphonated Oils—Higher cost of castor oil and tallow, further strengthened the sulphonated oil market. Current high prices have affected the consumption, and have increased the use of substitutes. Castor oil sulphonated 50 percent was quoted at 18c. to 20c. per pound, and 75 percent at 28c. to 30c. per pound, drums, depending upon quantity; tallow, 50 percent, 9c. to 9½c. and 50 percent, 13c. to 13½c. same basis.

Sizing Materials

Albumen, Blood—Inquiry was reported improved for nearby needs. Demand was moderate for immediate delivery. Prices were unchanged and firm.

Albumen, Egg—Improved inquiry was reported for prompt delivery. Market was firm at current quotations. Offerings were not liberal and closely held. Technical grades were reported in small supply and well held at former levels.

Dextrin, Corn — This market was firm and reflected the strength in corn. Demand continued to take production against current contracts. Resale material was scarce, which affected export business. Prices were well maintained.

Egg, Yolk—With supplies scarce and increased demand for spot delivery, the market remains in a firm position. Offerings were light and well held at $1.16 to $1.25 per pound, depending upon quantity.

Starch, Corn—Firm conditions continued to feature this market in sympathy with the advance in corn. Excellent demand absorbed the output against current orders. Resale offers were scarce, and have affected export business. Recent trading in resale lots was done at premiums. Visible supply of corn increased 2,157,000 bushels for the week ended February 22 and totaled 31,195,000 bushels, compared with 22,660,000 bushels a year ago, according to the Chicago Board of Trade.

Starch, Potato—Active demand by domestic and foreign users, it was stated, has cleaned up the production through April. Grinders were operating at capacity and the market was strong at current levels.

Tapioca Flour—Small lot trading was noted for spot delivery. Prices ranged from 7¾c. to 13c. per pound, on the spot, depending upon quality and quantity. Interest in shipments from Brazil was quiet. Offers from Brazil received little attention and in the absence of trading quoations were entirely nominal for low grades at 5¾c. and medium at 7c. to 7½c. per pound, f.o.b. Brazil.

Tanning Materials

Chestnut Extract—Inquiry for Spring requirements was reported more active. Demand was fair for immediate needs. Prices were held at former levels.

Divi-Divi—Consuming interest was moderate for replacement, though trading was reported light and spotty. Shipments were firm and maintained at former levels.

Mangrove Bark—While trading was reported light, advices from primary centers indicated a firm market for shipments. Offers for shipment were not liberal and well held.

Myrobalans—Arrivals were reported at 12,895 bags at New York last week for delivery on prior contracts. Primary markets were reported steadier and prices for shipment were maintained at the recent advance.

Quebracho Extract—Shipments of quebracho extract were gradually improving, but export licenses were restricted to solid ordinary. Clarified was unavailable for shipment because of the lack of soda ash and soda bisulphite at producing centers. Inquiry from tanners was active and offers were readily accepted. Solid, ordinary, was quoted at 7⅛c. per pound, in bond, Atlantic ports. Arrivals totaled 10,065 bags at New York last week and were delivered against former contracts.

Tara Powder—Buying interest was active for spot material, but supplies were unavailable and market entirely nominal. Recent imports were delivered on prior orders and not offered for resale. Some 1,590 bags of pods were received at New York last week and consigned against former contracts.

Valonia—Business was reported quiet, though inquiry was reported improved for nearby requirements. Offers for shipment were unchanged and held at current levels.

Wattle Extract—This market was featured by the strength at production points. Shipments of bark were higher and firmly maintained. Sales of fair average were reported at $67.50 per ton, f.a.s. Merchantable was quoted at $65, same basis. Last sales of 62 percent extract were reported at 7c. per pound, in bond, U. S. ports. Consuming inquiry was active, with limited offers for shipment. Bark arrivals totaled 3,850 bales and extract 10,235 bags at New York last week for delivery on previous orders.

For Late Market Developments, See Page 4

Market Trends

Prices Advanced

Fustic ext., cryst., 3c. per lb.
Fustic ext., liquid, 1c. per lb.
Hematine ext., cryst., 3c. per lb.
Hematine ext., liquid, 1c. per lb.
Hypernic ext., cryst., 3c. per lb.
Hypernic ext., liquid, 1c. per lb.
Logwood ext., cryst., 3c. per lb.
Logwood ext., liquid, 1c. per lb.
Osage orange ext., cryst., 3c. per lb.
Osage orange ext., liquid, 1c. per lb.
Quercitron ext., cryst., 3c. per lb.
Quercitron ext., liquid, 1c. per lb.
Wattle bark, $4 per ton.

Prices Reduced

None

Comparative Price Indexes

(100=August 1, 1914)

Last week.	Prev. week.	Last month.	Last year.
293.6	291.9	293.5	299.4

(For Current Prices see Page 9)

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Dibutyl Phthalate
Niacin (Nicotinic Acid)
Pyridines
Picolines
Quinoline

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Neutral Coal-Tar Oils
Creosote Oil
Cumar* (Paracoumarone-Indene Resin)
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Coaltar Chemicals

Mounting steel production to 94.4 percent of ingot capacity made the fifth consecutive week that an increase has been established. This indicates a moderate but persistent expansion in the output of coaltar. While this has been taking place, an unusually heavy demand for coaltar chemicals has prevented any visible expansion in the overall market supply. Available stocks of the basic chemicals as well as the intermediates have been allocated by suppliers in an attempt to maintain an even distribution to the consuming industries and this policy will likely continue until there is some concrete indication that output is leveling off demand.

Inquiry for benzol was active last week and sufficiently broad to keep the market position relatively tight. All the recent arrivals of creosote oil have improved distribution, but present demand is heavy with possibilities of expansion by the end of the month. Cresylic acid has remained short for so long that this condition appears to be of a chronic character. Productive capacity of naphthalene showed no sign of satisfying requirements in the near future. Stringent conditions in phenol have held the situation a tight affair rather than an open market. Coaltar pitch has been restored to the list of commodities requiring an individual export license. There are no surplus stocks of toluol in this area. Xylol remained tight but in balance.

All the naphthalene based intermediates have felt the stringency in the crude product with the shortage in phthalic anhydride being pronounced. The phenol based chemicals are about in the same position while shortages in such industrial chemicals as chlorine, sulphide of soda and others have all contributed to keep production of coaltar intermediates and dyestuffs down.

Steel operations for the week beginning February 24 were scheduled at 94.4 percent of ingot capacity, compared with 94.1 percent in the preceding week, according to the American Iron and Steel Institute. A month ago, the indicated rate was 93.6 percent. The present schedule is equivalent to the production of 1,651,900 net tons of ingots and castings, compared with 1,646,700 tons in previous week and 1,032,800 tons for the corresponding week in 1946.

Market Trends

Prices Advanced

None

Prices Reduced

None

Comparative Price Indexes

(100=August 1, 1914)

Last week.	Prev. week.	Last month.	Last year.
131.9	131.9	131.7	127.3

(For Current Prices see Page 9)

Basic Products

Benzol—Spot supply tight enough to eliminate much competition at present. The undertone of the general market is firm but without price change. Demand continued active with a limitation on reasonably prompt shipments in this area. Possibilities of easement in the near future are not considered favorable by the trade and it looked as though a firm market would prevail throughout the month.

Coaltar—Market conditions did not change materially over the turn of the month. Production has shown some expansion while demand has continued for enough above output to create a tight stock condition. The market's price structure was firm with no new revisions to record.

Creosote Oil—Consuming demand is said to be holding a high seasonal average which is expected to increase by the end of the month. The rapid absorption of output has held the market supply situation exceedingly tight. Advices from the United Kingdom state that in November, for the first time since before the war, the United Kingdom resumed large-scale exports of creosote to the United States. Receipts in November were 3,341,551 imperial gallons of the 3,647,495 gallons exported that month. Total exports of creosote in October were 138,330 gallons. It was planned to export 6,000,000 gallons of creosote to the United States by the end of 1946.

Cresylic Acid — Buyers have not found the going any easier in this market. Supply at present is insufficient to meet current requirements and suppliers are allocating material in an attempt to maintain an equitable distribution. Arrivals last week included 200 drums from Bristol and 377 drums from Liverpool.

Napthalene—This market has continued to feel the impact of a consuming demand for crude that has overtaxed current production and left the major movement directed chiefly to the makers of phthalic anhydride and other contract accounts. There appears to be nothing optimistic about any nearby easement of supplies and probably a tight market will exist until requirements of large consumers are leveled off. A tight supply position in the refined grades was also reported.

Phenol—Suppliers are not in a position to consider new business calling for prompt shipment at present as about all the material that can be produced during the next few months has been sold against contract accounts. Maintenance of heavy consumption has kept resales to a minimum basis.

Pitch—Coaltar pitch has been restored to the list of commodities requiring individual export licenses, effective February 28, it is announced by the Office of International Trade. The agency said that the item had been dropped from the "positive" list inadvertently several weeks ago, and is being restored to the list because of "important international considerations concerning the exportation of this commodity."

Toluol—Firm at the recent advance. Consuming demand remained active over the turn of the month with no surplus stocks reported in the eastern area. The current supply situation has placed a limit on the amount of business that can be accepted for reasonably prompt shipment.

Xylol—Not in free supply at present but stocks sufficient to meet most essential requirements and hold the market in a fair degree of balance. Undertone firm with prices fully sustained at late advance.

Chicago.—Interest continues brisk in all grades of coaltar bases, as well as their petroleum competitors. Benzol continues to attract active attention. Ruling prices exclusive of tax are:—Benzol, pure, in tankcars, freight allowed up to 2c. per gallon, 17c. per gallon; 10-degree xylol, same basis, 30c.; industrial xylol, same basis, 23c.; 2-degree toluol, same basis, 23c.; solvent naphtha, same basis, 23c.; creosote oil, 17c.

Coke By-Products

Estimates of by-product coke-oven operations in the week ended February 21 indicate the following output of by-products from that source:—

Ammonia liquor NH_3	lbs.	1,117,433
Ammonia sulphate	lbs.	28,935,750
Benzol	gals.	3,646,375
Coaltar	gals.	13,526,875
Creosote oil	gals.	752,800
Naphthalene, crude	lbs.	1,787,900
Phenol	lbs.	211,725
Toluol	gals.	729,275
Xylol	gals.	164,675

Hydrogenated Solvents

Market supply position has continued relatively tight as a result of the stringency that has developed in some of the essential basic materials. In this connection, the scarcity of phenol is the most important and has resulted in a low production of both cyclohexanol and cyclohexanone. Shipments of these solvents are behind contract schedules at present. Higher prices recently established for toluol have created a stronger background for methylcyclohexane while the firm condition of benzol has steadied the market for cyclohexane. General de-

For Late Market Developments, See Page 4

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mand has shown improvement with a tendency toward further expansion.

Coaltar Acids

Anthranilic—Both grades of this acid have continued in tight supply with the resublimed grade seemingly shorter than technical. Shipments have been confined mostly to dyestuff consumers who are covered by contracts.

Cleve's — Market conditions were described as firm without revealing any change in prices. Shipments have been made to meet the essential requirements of regular consumers without leaving any excess stocks.

Fumaric—Demand, chiefly for use in the synthetic resin and dyestuff industries, has kept sufficiently above current production to maintain a definitely tight market position.

Gamma — Found a steady outlet against contract accounts. High producing costs have contributed strength to the market position and the former price level has been firmly sustained.

Maleic—Has not relaxed from its tight supply condition. Consuming interest reported active particularly for synthetic resins and protective coatings.

Malic—Producers are shipping this acid to regular consumers and the movement has continued active enough to prevent any expansion in the supply of available stocks.

Para-Aminobenzoic — Firm under the maintenance of high producing costs. Supplies have remained at a low enough level to prevent any appreciable easement from the former tight market position.

Other Intermediates

Alphanaphthylamine — Stringency prevailing in basic products has made it difficult to maintain output in this intermediate. Stocks are short with the market firm at former selling levels.

Anilin—Heavy demand for dimethylanilin, diphenylamine, hydroquinone and various other intermediates and chemicals based with anilin oil has more than offset any relaxation of requirements from other consuming industries. While reasonably prompt shipments have been available for domestic use, the supply situation has remained relatively tight.

Betanaphthol — No improvement can be reported in the supply of technical. Stringency in basic material has kept production down and there is considerably more demand than supply at present with no nearby easement in sight. The market is quoted at 23c. to 25c. per pound f.o.b. the works.

Dinitrotoluene — Stocks have been kept down through the maintenance of shipments to regular consumers. Higher prices recently established for basic material have lent strength to the general market situation. Refined was quoted at 18c. per pound, oil at 5c. per pound and the mixture at 8c. per pound, all f.o.b. the works.

G Salt — Essential requirements of the dyestuff trade have prevented any increase in supplies for the open market. The lowest price heard was 50c. per pound. Amino G salt was quoted at 65c. per pound, both works.

Phthalic Anhydride — Supply position definitely tight with some producers falling behind contract schedules. Output has been running as high as the availability of the basic product will permit but demand, mostly for enamel type finishes, has kept considerably ahead of current production.

Coaltar Colors

Consuming inquiry was reported active with all of the important groups commanding attention. Shipments through regular consuming channels were sufficient to keep stocks low and the overall supply situation revealed no appreciable signs of easement. Producers have continued to experience difficulty in securing raw materials in quantities that would permit any important expansion in output. Meanwhile, odd lots of specialties have been imported from England, France and Switzerland in an effort to relieve the stringency that has developed in certain dyestuffs. Switzerland's exports of dyes continue to show an upward trend, according to foreign advices. In November, 1946, they were more than double in value those in November, 1945, totals being $4,140,000 and $1,840,000.

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BETHLEHEM STEEL

Chilean Nitrate Price

—Continued from page 5

production of Chilean nitrate is approximately $18.73 per metric ton.

Discussing the expansion of synthetic nitrogen production and its effect upon the future of the Chilean nitrate industry, the report had this to say:—

"Forty years ago Chile supplied about 73 percent of the world's total demand for inorganic nitrogen. Since then the world's demand has greatly increased, and this increase has been supplied in the main by synthetic production. Consequently, at the present time Chile supplies only about 10 percent of the world consumption of nitrogenous fertilizers. During the war years this percentage varied as follows:—

	Percent				
	1942-43	1943-44	1944-45	1945-46	1946-47
Synthetic ...	83.61	84.30	80.47	77.61	78.59
Byproduct ...	11.36	11.50	10.89	10.61	10.74
Nitrate	5.03	4.20	8.64	11.78	10.67

"The fact remains that Chile has only a small home market for her nitrate and practically the entire production has to be sold in the world market. With the United States, Great Britain, Canada, Germany, Norway and others having the potential capacity to assume an exportable surplus, the outlook is not too bright. The urgent demand for food during the reconstruction period will undoubtedly temporarily uphold the demand for Chilean nitrate. But if the German plants are not dismantled and the war-torn synthetic plants are commercially operated, it is a question as to whether Chile can compete in world trade with a higher c.i.f. price.

"It is doubtful, even with drastic rationalization of the industry, if it will be possible to materially reduce the cost of Chilean nitrate, whereas with new and/or improved recovery methods it is more than likely that reductions in the cost of synthetic nitrates will be realized. The lower costs of the synthetic product is an ever present inducement to new plant construction. Egypt and Spain, two of Chile's best customers, are now forming plans to set up a synthetic nitrate industry.

"It would seem that the most hopeful possibility for Chile would be the Latin American market where the nitrate industry has a cost advantage. This market at the present time consumes approximately 10 percent of the Chilean production. It might also be possible to retain the United States market if a reduction in freight rates could be realized. The present rate of $9.50 per ton is equal to over 50 percent of the production costs. Markets in the Far East should also be open to Chile since the synthetic plants in Japan, which formerly supplied a good part of this demand, will not be in operation for some time.

Ammonia Price

—Continued from page 4

carbonate are increases, averaging about 1 cent a pound. For instance, in New York city, the price is 6¾c. per pound, compared to 5.64c. per pound. In addition, the one percent cash discount has been discontinued.

The new price schedule for ammonia in cylinders:—

Zone 1

Destination in Conn., Del., District of Columbia, Ill., Ind., Iowa, Ky., Me., Md., Mass., Mich., Minn., Mo., N. H., N. J., N. Y., Ohio, Penna., R. I., Vt., Va., West Va., Wis., 16c. per pound.

Delivered in metropolitan areas surrounding base points—Boston, New York City, Niagara Falls, Philadelphia, Detroit, Chicago, and St. Louis, 16c. per pound.

Delivered in stock points or for shipment f.o.b. stock point cities, 16½c. per pound.

Zone 2

Destinations in Ark., Kans., Neb., N. C., N. D., Okla., S. D., Tenn., 18c. per pound.

Delivered in stock points or for shipment f.o.b. stock point cities. Exception:—Omaha, Neb., is 16½c. per pound; Kansas City, Kans., is 16½c. per pound, delivered from Kansas City, Mo., stock, 18½c. per pound.

Zone 3

Destinations in Ala., Ariz., Colo., Fla., Ga., Idaho, La., Miss., Mont., Nev., N. M., S. C., Texas, Utah, Wyo., 20c. per pound.

Delivered in stock points or for shipment f.o.b. stock point cities, 20½c. per pound.

Zone 4

California, Oregon, Washington (no statewide prepaid prices).

Delivered in San Francisco Bay metropolitan area or for shipment f.o.b. San Francisco from San Francisco bay stock, 16c. per pound.

Delivered in Los Angeles metropolitan area, Portland or Seattle or for shipment f.o.b. these stock points, San Diego, freight prepaid from Los Angeles stock. Tacoma, freight prepaid from Seattle stock, 17c. per pound.

Delivered in Spokane or for shipment f.o.b. that point, 19½c. per pound.

Spot and contract prices will be the same under the new schedules.

Ammonium Bicarbonate

Prices are in 300-pound net weight large plywood drums in less carload quantities. Freight is prepaid to all common carrier points in zones 1, 2, 3 and 4 defined below for shipment or delivery from Belle, W. Va., factory or stocks.

Zone 1

Destinations in Conn., Del., D. C., Ill., Ind., Ky., Maine, Md., Mass., Mich., N. H., N. J., N. Y., Ohio, Pa., R. I., Vt., Va., W. Va., Wis., 6¾c. per pound.

Zone 2

Destinations in Ala., Ark., Fla., Ga., Ia., Kans., La., Minn., Miss., Mo., Neb., N. C., N. Dak., Okla., S. C., S. Dak., Tenn., 7¼c. per pound.

Zone 3

Destinations in Colo., Mont., N. Mex., Tex., Utah, Wyo., 8¼c. per pound, cost, insurance and freight to Corpus Christi, Galveston and Houston, via rail, water shipment from Belle, W. Va., 7¼c. per pound.

Zone 4

Destinations in Ariz., Cal., Ida., Nev., Ore., Wash., 9¾c. per pound, c.i.f. (cost, insurance and freight) to Los Angeles Harbor, San Francisco, Portland, Tacoma and Seattle, via rail, water shipment from Belle, W. Va., 8¼c. per pound.

Carload Price

F.o.b. Belle, W. Va., freight equalized with Solvay, N. Y. Minimum carload weight is 36,000 pounds, excepting Pacific Coast states where minimum is 30,000 pounds, 5¾c. per pound.

Small 135-lb. Drums

Additional to zone l.c.l. and c.l. price above, ½c. per pound.

Export Prices

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Agricultural Chemicals

Consuming interest in all of the nitrogen chemicals has been sustained at an unusually high level throughout the past week. Shipments from supply sources have been constantly under pressure and considerably more could be used if the material was made available. In practically every instance, production is sold against contract accounts and the absence of reserve stocks has held the supply situation tight. Demand for mixed fertilizers is steadily increasing with the movement gaining momentum with each successive week. Stocks are being reduced and the possibilities of replenishment do not appear favorable at the present time as there is no apparent indication of any expansion in the extent of basic supplies.

According to government authorities, there will not be enough fertilizer to meet American farm requirements this year and serious regional shortages have already occurred. It is assumed that domestic farmers will use twice as much fertilizer as in 1935-1939 and that output of commercial nitrogen will hit an annual rate of 673,000 tons by May, three times the rate of 1940. This unprecedented supply of fertilizer, it is stated will not be sufficient to meet all domestic requirements.

About the only materials that can be described as in free supply at present are the vegetable oil seed meals, including cottonseed, peanut and soybean. The fertilizer trade has purchased some of these meals, but most of the important buying has been for the account of feeders while trading in packing-house byproducts has suffered accordingly. Odd lots of fish meal were obtainable at lower prices, although there was no active trading. Inquiries for the insecticide and fungicide chemicals have shown a seasonal increase. The uncertain possibilities surrounding the overall supply situation have made early buying essential as a sound crop insurance measure.

Market Trends

Prices Advanced

None

Prices Reduced

Fish meal, $5 per ton.

Comparative Price Indexes

(100=August 1, 1914)

Last week.	Prev. week.	Last month.	Last year.
72.3	72.3	72.3	71.8

(For Current Prices see Page 9)

Nitrogenates

Ammonia Nitrate—It is reported that the army has been directed to cut down its production of nitrogen fertilizer in ordnance plants because of the shortage of railroad tankcars which are needed for other products. Five plants will be closed and the army's output will be reduced from 88,000 tons to 65,000 tons monthly. The army has been producing fertilizer for the occupied countries abroad.

Ammonia Sulphate—Production has shown improvement during the past month although the increase has not expanded sufficiently to ease the supply situation. Demand from fertilizer mixers has been sustained at an exceedingly high level with shipments below scheduled requirements. The market condition is described as firm and tight.

Bone Meal—Former prices were sustained under moderate buying which included requirements of both the feed and fertilizer trades. Available stocks were not of excessive dimensions but apparently sufficient to meet the current extent of consuming demand.

Dried Blood—Light trading continued to feature this market without revealing any important price change. Buyers took some material, but demand was not of the urgent character noted a few weeks ago.

Fish Meal—Activity limited in both meal and scrap with odd lots obtainable at $130 per ton for meal, with some sellers asking up to $135. This is the off season but it is expected that some "when and if made" orders will be placed within the next few weeks.

Soda Nitrate—Present supply short of demand. Better distribution expected this month with increased arrivals from Chile. Market position firm and tight. Interest in the development of the nitrate industry in northern Chile has been indicated by a group of Egyptian industrialists, according to the foreign press. The Chilean Government is said to be considering the proposed investment.

Tankage—Some buying reported for feed and fertilizer uses on the basis of $7.50 per unit-ton here and in the West. Efforts to shade this figure were not successful during the past week.

Phosphates

Phosphate Rock—Urgent demand for high grade rock and Florida land pebble has not eased and the supply above ground has been kept low enough to hold the market in a tight condition. Shipments have been interrupted by the boxcar shortage which at times has proved serious.

Production of phosphate rock in Tunisia in the third quarter of 1946, amounting to 349,414 metric tons, was below the second quarter figure of 370,475 tons, but was almost double the 174,904 tons produced in the third quarter of 1945. In the first nine months of 1946, production totaled 1,003,566 tons, an increase of 113 percent over the 471,000 tons produced in the like period of 1945.

Exports of 439,522 metric tons in the third quarter of 1946 reached the highest point since the liberation.

Superphosphate—Regardless of the maintenance of high production, the market position has continued tight under a heavy demand. Stocks at the beginning of the year were relatively low and prospects do not appear to favor any important increase as the movement of mixed fertilizers is steadily expanding.

Potashes

Present market conditions have remained tight with demand exceeding the supply limit. According to trade reports, demand is considerably in excess of the 16,500 tons that are expected to arrive from France during the next three months. As far as can be learned the disposition of this material and the price have not been determined to date. When the announcement is made public, it may offer a clue as to what Russian potash will bring in the American market. Mixers need more potash for the coming season. The movement of mixed fertilizer is gaining momentum with each successive week. Stocks are steadily being reduced and replenishment will shortly be in order at mixing plants.

Markets at Other Centers

Los Angeles.—Organic supplies continued to increase in this area, but full demand could not be met. Other chemicals remained in short supply. Prices, this week, remained firm. Ruling prices are:—

Ammonia nitrate—$65 per ton with freight allowances up to $4.40 per ton from production plant. Ammonia phosphate—$52.80 per ton for 16/20 grade and $66.20 for 11/48 delivered at production plant.

Insecticides

Uncertainty appears to be increasing regarding the supply of many insecticides and fungicides. At present, DDT is so heavily sold on contract accounts, that buying conditions are expected to remain tight over the greater part of the year. The same condition exists in paradichlorobenzene. Copper sulphate will probably meet requirements as the buying movement inaugurated last Fall is still going strong and it is believed that farmers have stored a good supply of this chemical. The arsenic situation has not improved and it is stated there is barely enough stock in sight to meet insecticide requirements. Nicotine sulphate has remained very tight. Paris green appears adequate at present and the supply situation of natural cryolite looks favorable. Sabadilla is described as tight to critical with the Venezuelan crop short and prices higher.

Notice of quarantine number 64 in reference to the Mexican fruitfly has been announced by the Bureau of Entomology and Plant Quarantine. It has been necessary to resume all permit requirements relative to interstate movement of regulated citrus fruits from the regulated area to prevent dissemination of this insect. The quarantine measure will remain effective until due notice of the lifting of such requirements shall have been given.

Sulphur and Pyrites

Bureau of Mines placed apparent sales of domestic sulphur at 456,468 long tons in December against 464,344 tons in the preceding month. In December, 1945, total sales were 244,260 tons. The aggregate sales for 1946 were placed at 4,094,191 long tons against 3,849,591 tons for the previous year. Aside from occasional interruption in the movement of sulphur resulting from insufficient transportation facilities, the market situation has remained satisfactory. The stockpile is sufficient to satisfy all requirements promptly. Shipments of pyrites to contract consumers have accounted for the major part of the movement of this material.

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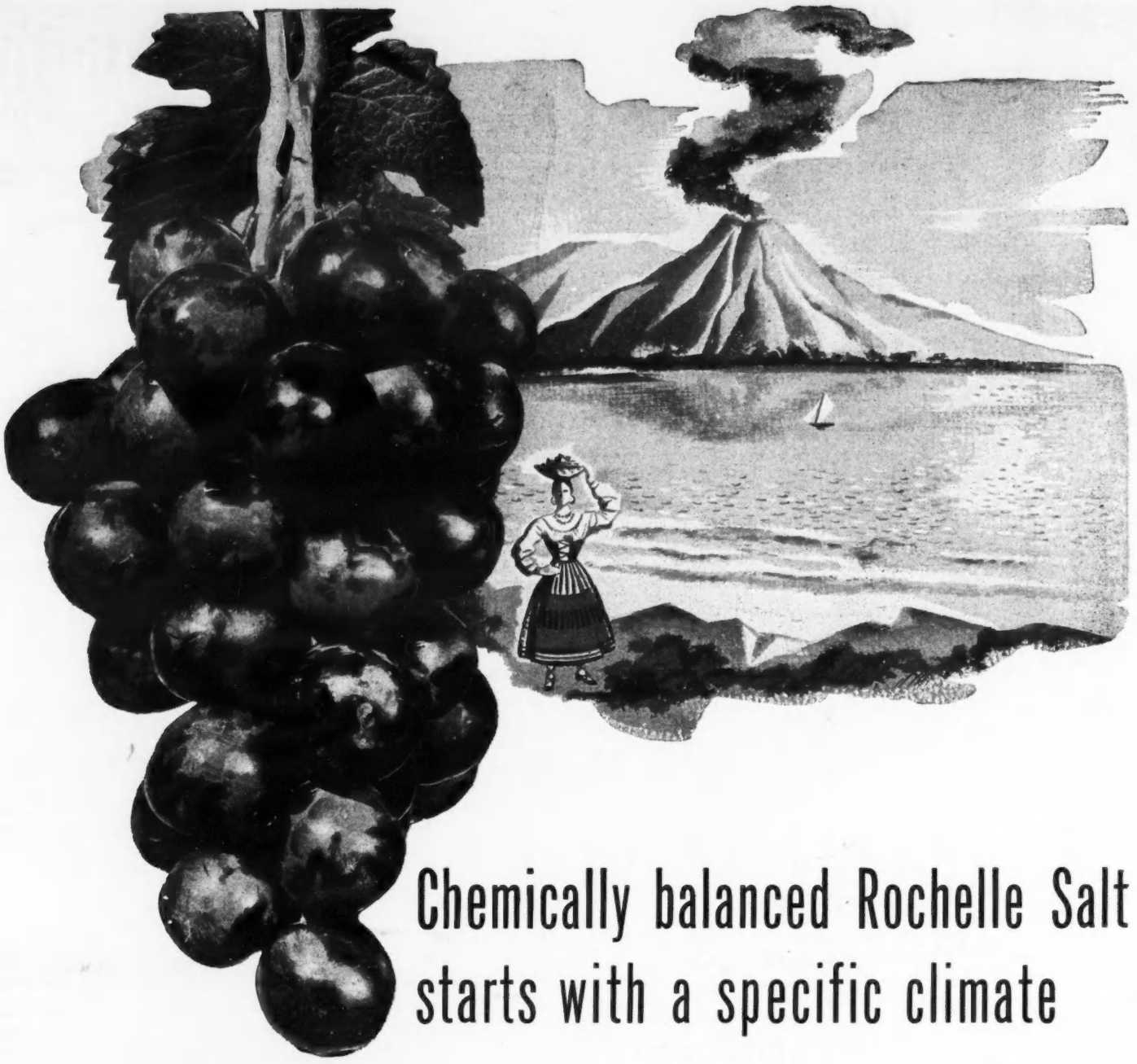
For Late Market Developments, See Page 4



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Drugs and Fine Chemicals

Further upward adjustments in the bismuth salts of a "minor" character, plus a sharp, sudden advance in prices on silver bullion and nitrate, vied with the extension of price declines in quicksilver derivatives to include mercury mass, bisulphate and cyanide in drug and fine chemical market developments last week. The arrival of 2,900 flasks of quicksilver from Japan for the account of a government agency from United States authorities in Nippon recalled to mind the some 70,000 flasks now held in the United States zone in occupied Germany. Disposal of both lots poses much thought for American quicksilver producers, distributors, and consumers.

The rising prices for bismuth salts were based on the advance made recently by those who recover bismuth metal in smelting operations. Although all "minor" salts have been advanced actual price schedules have yet to be announced. The further drop in quicksilver derivative quotations reflected metal at its present price and contrasted substantially with the apparently firmer spot position of mercury late last week.

Resumption of cinchona bark and quinine exports from Java seemed nearer last week when it was learned that the Java plantations and factories received no major damage during the Japanese occupation. Once the political differences between the Dutch government and the Indonesian nationalists are resolved, reconstitution of major exports of cinchona bark and quinine will be probably not far off.

No further advance came in castor oil prices but beans were not only higher but supplies in Brazil were said virtually exhausted in firsthands and no further offerings from such quarters are likely earlier than new crop in June-July. Codliver oil held a firm position but interest centered more in new crop prospects than in the small size of unsold spot stocks.

Market Trends

Prices Advanced

Bismuth metal, 20c. per lb.
subcarbonate, 20c. per lb.
subgallate, 10c. per lb.
subnitrate, 15c. per lb.
subsalicylate, 15c. per lb.
all minor salts.
Castor beans, $5 per long ton.
oil, 2c. per lb.
Gelatin, silver, 35c. per lb.
Silver bullion, 5c. per oz.
nitrate, 3c. per oz.

Prices Reduced

Blue mass, N.F., 11c. per lb.
pill, 11c. per lb.
Mercurial ointment, USP, strong, 20c. per lb.
Mercury bisulphate, 17c. per lb.
cyanide, 32c. per lb.

Comparative Price Indexes

(100=August 1, 1914)

Last week.	Prev. week.	Last month.	Last year.
250.8	250.8	247.7	208.4

(For Current Prices see Page 9)

Acetanilide—Steady flow of orders kept manufacturers hard on a program that moved production almost as it became available. The undertone of the market showed strength both in demand and price.

Acid, Acetylsalicylic—Requirements of manufacturing and other consumers showed no decrease. The constant demand for prompt deliveries against outstanding contracts kept production moving steadily and in full volume into consuminp channels. Prices were firm.

Acid, Ascorbic—Little change in demand was reported; the call was fully even with that in recent weeks. Nor was there any shift away from the long continued stabilization of prices.

Acid, Boric — Price stabilization seemed to have been achieved although on bulk quantities considerable difference in the minimum prices of producers was still in effect. Demand constituted a supporting element in a generally firm spot market.

Acid, Citric—Demand was excellent and with the approach of Spring, expansion in consumption is a reasonable prospect as a prelude to the major demand that comes with the Summer months. Prices appeared still to be completely stable.

Acid, Gluconic—Demand was moderate in size but it was exceptionally steady in character. Prices were firm in the absence of much competition between sellers.

Acid, Mandelic—Trade was routine. Consumers bought close to requirements, which was in keeping with the excellent availability of the article in producers' hands. Undertones were steady and prices were well maintained in stable position.

Acid, Nicotinic — Consumption touched excellent totals last week and the outlook for continued excellence in consumption was favorable. Prices have been very steady for a substantial period of time.

Acid, Salicylic—The market for acid was very firm and that in derived products—the salicylates—was in identical position. Deliveries were said to be on a fairly reasonable basis but the open market contained little in the way of surplus stocks.

Alcohol — Demand for industrial alcohol in all forms ran to large totals. Manufacturing consumers' requirements showed no decrease and prospects for the maintenance of heavy consumption were good.

Raw material prospects were good as concerned corn grain but far from satisfactory as to blackstrap molasses. The government stockpile shrinks steadily and now stands at 7,000,000 gallons which the Reconstruction Finance Corporation prices at 75c. per gallon. For some reason not disclosed, the idea that prices will decline in the future seems to be held by some manufacturing consumers. Evidence in that direction was found last week in inquiries made by large consumers as to the probable trend of future prices and for the purpose of avoiding the ownership of large stocks when a substantial reduction might take place. So far as can be learned, nothing in the production and sales position of industrial alcohol suggests any substantial change of prices in favor of buyers.

Of course, special legislation by Congress permitting a reduction in internal revenue taxes on alcohol used for industrial purposes—as opposed to its use in intoxicating beverages—would mean a sharp drop in the price of tax paid alcohol when sold to industrial users. But it would be totally without effect on the price of denatured alcohol which is, of course, tax free now.

Bismuth Metal and Salts—Prices on bismuth metal and some of its salts were advanced in the closing hours of the previous week. Under this price development, metal became $2 per pound. Bismuth subcarbonate was established at $2.60 to $2.63 per pound; subgallate, $2.45 to $2.48; subnitrate, $2.15 to $2.18; subsalicylate, $3.05. Last week, all "minor" salts were advanced but actual price schedules had yet to be announced.

Cadmium Metal and Salts—The price for metal has risen to $1.75 to $1.80 per pound and some quarters make $1.80 their lowest quotation. This had a naturally strengthening effect on the price position of all derivatives, but the sellers of bromide and iodide have yet to advance their quotations.

Castor Oil—Producers of castor oil advanced prices 2c. per pound late in the previous week. USP oil in tanks became 32½c. per pound; drums, carlots, 33½c.; less carlots, 34½c.; No. 3, technical, tanks, 32¼c.; drums, carlots, 33¼c.; less carlots, 34¼c. Prices on beans were up to $285 per long ton, f.o.b. Brazil, with nothing available in first hands until new crop in June-July.

This advance in oil prices tied-in with the very high price prevailing on castor beans at the source. And the new and much higher oil prices were fully supported by the continuation of demand at a very high rate of consumption. Arrivals of raw material thus far this year run ahead of those for the corresponding period in 1945.

Arrivals last week totaled 40,583 bags, or 6,087,450 pounds. This compared with 52,388 bags, or 7,850,700 pounds in the previous week. Total arrivals since January 1 reached 412,427 bags, or 61,864,050 pounds, which compares with 225,595 bags, or 33,839,250 pounds arrived in the corresponding period of 1945.

Chicago, Feb. 26.—Ruling prices are:—Cold pressed, U.S.P., 30c. per pound,

For Late Market Developments, See Page 4

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Codliver Oil—Importers and consumers await the official data relating to production of the new crop of codliver oil in North Atlantic waters with much interest and a deal of impatience. With Norwegian government price views being around $2.30 per gallon c.i.f., the effective adherence to that value will depend much on the quantity of oil produced and the world demand for the article.

It is felt here that world consumption of codliver oil will continue to be large if for no other reason than its use in the production of oleomargarin for European consumption can hardly decrease unless the general shortage of fats and oils throughout the world shall change for the better.

The present spot market has little unsold oil and a very lively consumption activity among consumers and distributors.

Fishliver Oils—Research chemists of the Fish and Wildlife Service have found that the quantity and quality of vitamin A oil contained in the dogfish shark livers depend on the size and age of the fish. Processing livers from dogfish less than 30 inches long has been found to be uneconomical and wasteful. These findings have been adopted by shark fishermen who now concentrate on taking the larger dogfish.

Declared exports of fishliver oil from the Copenhagen consular District, Denmark, to the United States in December, 1946, amounted to 25 tons valued at $19,940.

Glycerin—Demand continued unabated at the very high levels prevailing for many months. The total of domestic production is well engaged ahead and the outlook for interest in deliveries of large quantities is highly favorable. Never a week goes by without some manufacturing consumer inquiring as to the possibility of his getting glycerin in foreign parts because he cannot get it in domestic circles. A change in this aspect of the market is bound to come but its coming cannot be sighted at this time.

Chicago, Feb. 26.—Ruling prices on glycerin are, for both chemically pure and high gravity, 55c. per pound, tank-car; 55¼c., drums, carlots; 55¾c., drums, less than carlots.

Iodine and Iodides—Radio active iodine isotopes administered orally as a solution of radioactive sodium iodide have been found "to be effective in treating a case of metastic adenocarcinoma of the thyroid," according to the leading American medical journal.

Menthol — The market continued very firm at all points but the recent arrival of some fair sized quantities encountered a slump in demand for prompt delivery merchandise and led to some reports of price shading going the rounds among suppliers. However, prices in Brazil were said to show substantial support based on the probable reduction in the size of the 1947 production in this country.

What this country would like to know from its official government agencies connected with the import of menthol is: How large a part will Chinese and Japanese menthol production play in the market this year? And the official agencies are not supplying the American consumers with this vital information. Since import from Japan is only through government agencies, it would seem that such agencies might do something to inform the American consumers for whom they are required to act.

Mercurials — Lower prices were lately established on calomel, corrosive sublimate, red precipitate, white precipitate, and the red and yellow oxides. Also on mercury iodides, red and yellow.

Methanol—Prices lacked new development, being in an apparently stable position and being supported by an equally stable consuming requirement. This applied to both the natural and the synthetic product, both of which have orders usually in excess of the prompt delivery ability of the producers working on new orders. Contract requirements have engaged output well ahead.

Methyl Acetone—Makers of the synthetic article retained prices in very steady position at price levels substantially lower than those asked and, it is said, obtained by those who sell the natural product.

Methylethyl Ketone — Production was reported well engaged ahead and the constant movement of new production for satisfaction of contract requirements prevents accumulation of an unsold surplus and thus eliminates a factor that might cause prices to deteriorate in the future.

Quicksilver—The feature was the arrival of metal from Japan, reaching here under consignment to a government agency. The quantity was 1,305 flasks from Yokkaichi and 1,595 flasks from Kobe. This was metal owned by the Japanese for use in the war but falling to the American occupation forces following capitulation. How the government will handle this metal is not known. Some hold that the government will be urged to stockpile the metal against future emergency. Others feel that it will be put up for bidding by consumers, exactly as other Japanese merchandise has been handled.

In addition to this government held lot is another some 70,000 flasks held by the American occupation forces in Germany, the disposal of which poses another nice question for the government, the American mines, and the domestic consumers.

San Francisco, Feb. 26.—The quicksilver market here this week was active. However, supplies remain off. Pro-

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Innis, Speiden Secretary

W. H. Sheffield jr., assistant treasurer and a director of Innis, Speiden & Co., New York, has been elected secretary of the firm. At the annual meeting held recently, all officers and directors of the company were re-elected.

ducers were quoting metal between $86 and $87 per flask, f.o.b. San Francisco.

Quinine—It is learned that the cinchona bark and quinine installations in Java were not destroyed by the Japanese during the occupation, other reports to the contrary. In fact, the Nips actually built two small but new factories for quinine extraction. It is also learned that the Dutch in Java shipped bark and quinine to Holland after the reoccupation by the Allies and that this bark will ultimately be allocated on the basis of an historical import by foreign countries.

Those who produce quinine in the United States would like to know when the Dutch will again engage in the major export of cinchona bark from the Netherlands East Indies. And that desirable revival of NEI export trade seems to depend in no small part on the final rapprochment between the Dutch government and the Indonesian nationalists. Some American firms in close touch with what goes on in Java have said that it is still unsafe for the cinchona horticulturists and quinine technicians to go into the plantation areas without military protection. Progress toward the resolution of Dutch-Indonesian differences seems slow but some substantial progress has been made toward an understanding which, if reached, would free NEI commerce from its present hobbles of political differences.

Silver—Prices on silver bullion were advanced 3c. to the basis of 75¾c. per ounce on February 24. This was the first price change since January 20. Return of domestic users to the industrial market plus inquiry from London led to the rise, it was said.

Prices on silver nitrate reflected the rise in bullion prices. Packed in 250-ounce bottles, 2,500-ounce lots, 49¾c. per ounce; 1,000-ounce lots, 50c.; 500-ounce lots, 50¼c.; single 250-ounce bottles, 50½c.

Johnson & Johnson Elects L'Hommedieu to New Post

Paige D. L'Hommedieu, vice-president of Johnson & Johnson, has been appointed president of Personal Products Corporation, Milltown, N. J., a Johnson & Johnson subsidiary. In addition to his new duties, Mr. L'Hommedieu will continue as a member of the Johnson & Johnson board of directors. He has been with the company since 1928 when he started as a salesman in the hospital division.

Trade Briefs

Madagascar's imports of medicinals during the first ten months of 1946 amounted to 253,200 kilograms, net weight, valued at 46,007,000 francs.

Drugs and medicinals exported from Switzerland in November, 1946, were valued at 15,000,000 Swiss francs, compared with 8,000,000 francs in the similar period of 1945.

Penicillin plant will be built in Rome, output of which will be marketed through private channels. The Italian Council of Ministers has authorized a credit of 350,000,000 lire for the project.

OPD—3-3-1947 55

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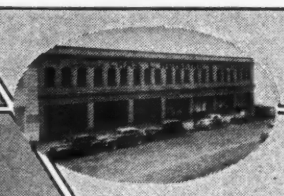
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BELLADONNA ROOT—35 bls, Feek & Velsor, Trieste

BLUE CLAY—260 tons, Bristol

BONES—521 bgs, Swift & Co, Brisbane

CACTUS—45 cs, S B Penick & Co, Kingston

CAMPHOR OIL—25 dms, Dodge & Olcott Co, Hongkong

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CARDAMOM—80 cs, Volkart Bros, Tuticorin—Seed, 30 cs, W E Martin Co, Puerto Barrios—33 cs, Eggers & Heinlein, Puerto Barrios

CARNAUBA WAX—67 bgs, Smith & Nichols, Bahia—33 bgs, Natural Product Corp, Fortaleza—66 bgs, W M Allison & Co, Fortaleza—111 bgs, American Cyanamid & Chemical Corp, Fortaleza—221 bgs, Wessel, Duval & Co, Fortaleza—77 bgs, Innis, Speiden & Co, Fortaleza—280 bgs, S C Johnson & Son, Fortaleza

CASSIA—450 bls, Van Norden & Archibald, Hongkong—100 bls, C M Van Sillevoldt, Hongkong—60 bls, Knickerbocker Mills Co, Hongkong—50 bls, Norwalk Mills, Hongkong—500 bls, Hongkong

CASSIA OIL—2 dms, Geo Lueders & Co, Hongkong—10 dms, Dodge & Olcott Co, Hongkong—5 dms, Ungerer & Co, Hongkong

CASTOR BEANS—6,800 bgs, Baker Castor Oil Co, Bahia—850 bgs, Brown Oil & Chemical Co, Bahia—7,632 bgs, Baker Castor Oil Co, Santos—1,700 bgs, Bank of Manhattan, Bahia—20,100 bgs, Baker Castor Oil Co, Recife—4,201 bgs, Spencer Kellogg & Sons, Cabedelo—1,000 bgs, Brown Oil & Chemical Corp, Cabedelo

CASTOR OIL—250 dms, Bunge Corp, Recife—125 dms, Fidelity Union Trust Co, Recife—127 dms, Wallace & Tierman Product Co, Recife

CERAMIC COLORS—1 cs, 1 ck, B F Drakenfeld & Co, Liverpool

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CHROMITE ORE—80 bgs, Basic Refractories, Inc, Brisbane

CITRONELLA OIL—32 dms, Norda Essential Oil & Chemical Co, Colombo—8 dms, Fritzsche Bros, Colombo—6 dms, Volkart Bros, Colombo—55 dms, Fruit Dispatch Co, Puerto Cortes

CIVET—1 cs, Aden

CODLIVER OIL—166 dms, Arista Oil Product Co, Bergen—50 dms, Paul W Fricke Corp, Copenhagen

COPRA—2,000 tons, Spencer Kellogg & Sons, Legaspi—1,002 tons, General Foods Corp, Davao

CORNSILK—37 bls, Joseph Giovani, Genoa

CRESYLIC ACID—333 dms, Monsanto Chemical Co, Liverpool—44 dms, Republic Chemical Co, Liverpool—1 parcel, E I du Pont de Nemours & Co, Liverpool—200 dms, W D Neuberg, Bristol

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DEXTRIN—200 bgs, Federal Adhesive Co, Rotterdam

DICYANDIAMIDE—1 cs, E I du Pont de Nemours & Co, Liverpool

DOGWOOD BARK—11 bgs, Interocean Export Corp, Kingston—122 bgs, S B Penick & Co, Kingston

DYES, ANILIN—43 dms, Geigy Co, Inc, Havre—20 kgs, 4 dms, L & R Organic Products Co, Liverpool—5 cyls, 2 cs, Carbic Color & Chemical Co, Havre

EBONITE DUST—232 bgs, Chase National Bank, Bristol

EUCALYPTUS OIL—2 dms, Orbis Products Corp, Melbourne—20 dms, P R Dreyer, Melbourne—20 dms, Melbourne—20 dms, S B Penick & Co, Brisbane—15 dms, Dodge & Olcott Co, Brisbane—12 dms, Magnus, Mabee & Reynard, Brisbane—12 dms, Union Bank of Australia, Brisbane

FISH LIVER—17 bbls, International Fisheries, Lisbon—Oil, 8 dms, International Vitamin Corp, Brisbane

FISH LIVER OIL—24 dms, Distillation Product Corp, Capetown

FLEASEED HUSK—133 bgs, R J Prentiss & Co, Bombay—510 bgs, S B Penick & Co, Bombay—471 bgs, Parke, Davis & Co, Detroit, Bombay—165 bgs, E Meer & Co, Bombay—62 bgs, Kachurin Drug Co, Bombay

FLINT PEBBLES—370 bgs, Bluebendorf Bros, Copenhagen

FUEL OIL—195,918 bbls, Standard Oil Co N J, Aruba—58,522 bbls, Asiatic Petroleum Corp, Aruba—65,459 bbls, Shell Oil Co, Curacao—10,000 bbls, Asiatic Petroleum Corp, Curacao

FULLERS EARTH—100 bgs, L A Salomon & Bros, Bristol

GALANGAL ROOT—100 bls, Chung Sai Trading Co, Seattle, Hongkong—100 bls, East Asiatic Co, Hongkong

GALL—5 cks, Tupman, Thurlow & Co, Napier—4 dms, Chase National Bank, Adelaide—2 dms, Bank of New South Wales, Adelaide—1 ck, 1 dm, Swift & Co, Brisbane

GINGER—5 bgs, G T Reid, Kingston

GLANDS—425 cs, Tupman, Thurlow & Co, Napier—8 bbls, Parke Davis & Co, Detroit, Buenos Aires—406 cs, Tupman, Thurlow & Co, Buenos Aires

GLUESTOCK—153 bgs, Alfred Bloch, Liverpool

GYPSUM—5,558 tons, United States Gypsum Co, Deep Brook

HENNA LEAVES—133 bls, S B Penick & Co, Karachi

HERBS, CRUDE—138 bls, Levy & Levis Co, Marseilles—17 bgs, 4 bbls, E Meer & Co, Rotterdam—34 cs, 16 bbls, 1 bl, R J Prentiss & Co, Rotterdam

HOG CHOLERA SERUM—13 cks, C L Huisking & Co, Lisbon—Stomach Lining—76 bbls, International Commercial Co, Chicago, Buenos Aires

ILMENITE SAND—4,000 tons, American Cyanamid & Chemical Corp, Koilthattam—20 bgs, Bank New South Wales, Brisbane

IPECAC ROOT—3 bgs, Midland Bank, Cartagena—4 bgs, Wessel, Duval & Co, Cartagena—25 bgs, Rosing Bros & Co, Ltd, Cartagena

IRISHMOSS—50 bls, T M Duche & Sons, Havre

IRON OXIDE—91 bgs, C B Chrystal & Co, Bristol—1,120 bgs, C J Osborn & Co, Bristol—1,120 bgs, Bristol

JUNIPER BERRIES—200 bgs, R J Prentiss & Co, Leghorn—166 bgs, Wessel, Duval & Co, Leghorn—417 bgs, Kachurin Drug Co, Leghorn

KARAYA GUM—97 bgs, Philipp Bros Chemical, Inc, Bombay—266 bgs, Wm M Allison & Co, Bombay—332 bgs, Wessel, Duval & Co, Bombay—266 bgs, S B Penick & Co, Bombay—200 bgs, Innis, Speiden & Co, Bombay—332 bgs, Stein, Hall & Co, Bombay—171 bgs, Guaranty Trust Co, Bombay

KOLA NUTS—100 bgs, D Steengrafe Co, Kingston—33 bgs, J A Manton & Co, Kingston

LEMONGRASS OIL—4 dms, Fruit Dispatch Co, Puerto Cortes—18 dms, Norda Essential Oil & Chemical Co, Cochin

LIME OIL, DISTILLED—20 cs, Dodge & Olcott Co, Kingston

LIQUIDAMBAR — 10 dms, Cortez Trading Corp, Puerto Cortes

MALEFERN ROOT—29 bgs, Biddle-Sawyer Corp, Karachi

MARJORAM LEAVES—37 bls, Becker-Mayer Seed Co, Marseilles—37 bls, Otto Gerdau Co, Marseilles

MASTIC GUM—100 cs, National Bank of Greece, Piraeus

MENTHOL—35 cs, Volkart Bros, Santos

MUSTARD SEED—100 bgs, R T French Co, Rochester, Rotterdam

MYROBALANS—11,562 bgs, Barkey Importing Co, Bombay—1,333 bgs, Vermilye Co, Bombay

NICKEL CARBONYL LIQUID—18 cyls, International Nickel Co, Bristol

NUTMEGS—58 bgs, Wm M Allison & Co, Colombo

OITICICA OIL—244 dms, L N Jackson & Co, Fortaleza—122 dms, Grace National Bank, Fortaleza

OLIBANUM GUM—17 bgs, Alavarria & Co, Aden

OLIVE OIL—200 cs, Nylson Trading Co, Leghorn—1,480 cs, Berolia Import Co, Leghorn

ORANGE OIL—40 cs, Citrus & Allied Essential Oil Co, Kingston

ORRISROOT—68 bgs, R J Prentiss & Co, Leghorn

OURICURY WAX—56 bgs, Cornelius Product Co, Bahia—56 bgs, Wm Diehl & Co, Bahia—56 bgs, Innis, Speiden & Co, Bahia

PALMAROSA OIL—4 pots, Geo Lueders & Co, Bombay—2 pots, Volkart Bros, Bombay

PAPRIKA—200 bgs, M J Golombeck, Lisbon—199 bgs, Knickerbocker Mills Co, Rotterdam

PEPPER, BLACK—252 bgs, Joensson & Cross, Liverpool—1,448 bgs, Joensson & Cross, Bombay—1,520 bgs, Otto Gerdau Co, Cochin—150 bgs, Otto Gerdau Co, Antwerp

PERILLA GUM—73 cs, Chicle Development Co, Barranquilla—16 bls, Wessel, Duval & Co, Cristobal

PETROLEUM, CRUDE—204,476 bbls, Standard Oil Co N J, Las Piedras—105,581 bbls, Standard Oil Co N J, Cartagena—101,151 bbls, Cities Service Oil Co, Las Piedras

PIMENTO—48 bgs, C L Huisking & Co, Kingston—100 bgs, A G Dunn, Kingston—160 bgs, H A Gogarty, Inc, Kingston

PIMENTO LEAF OIL—3 dms, Dodge & Olcott Co, Kingston—6 dms, Geo Luedera & Co, Kingston

POPPYSEED—300 bgs, C M Van Sillevoldt, Rotterdam—100 bgs, Sokol & Co, Chicago, Rotterdam—200 bgs, Catz American Co, Rotterdam—100 bgs, Levy & Levis Co, Rotterdam—100 bgs, Archibald & Kendall, Rotterdam—100 bgs, Louis Furth, Inc, Rotterdam

PYRETHRUM EXTRACT—3 cs, W Angamar Larner, Bombay

QUASSIAWOOD CHIP—35 bgs, W & A Leaman, Kingston—15 bgs, Interocean Export Corp, Kingston—700 bgs, S B Penick & Co, Kingston

QUEBRACHO EXTRACT—10,065 bgs, River Plate Import & Export Corp, Buenos Aires

QUICKSILVER—1,305 flasks, United States Commercial Co, Yokkaichi—1,595 flasks, United States Commercial Co, Kobe

RADIUM—100 milligrams, Consul General De Guatemala N Y, Puerto Barrios

ROOT, MEDICINAL—3 cs, S B Penick & Co, Leghorn

RUTILE SAND—2,000 bgs, Brown Bros-Harriman Co, Brisbane

SANDALWOOD—50 bgs, Geo Luedera & Co, Bombay—941 bgs, W J Bush & Co, Bombay—100 bgs, Dodge & Olcott Co, Bombay—Oil, 8 cs, Volkart Bros, Bombay

SARSAPARILLA ROOT—8 bls, G T German, Kingston—4 bls, Peek & Velsor, Puerto Cortes—8 bls, Victory Shipping Co, Kingston

SCHEELITE ORE—454 bgs, Sussex Trading Corp, Fortaleza

SENNA PODS—15 bls, S B Penick & Co, Tuticorin—Leaves, 85 bls, S B Penick & Co, Tuticorin—60 bls, Wm M Allison & Co, Tuticorin—150 bls, Volkart Bros, Tuticorin

SIENNA EARTH—10 bbls, T H Dentz Co, Leghorn

SIMARUBA BARK—12 bgs, 1 bl, Interocean Export Corp, Kingston

SOAPBARK—242 bls, S B Penick & Co, San Antonio—293 bls, R J Prentiss & Co, San Antonio

SODA ALGINATE—5 cs, Stein, Hall & Co, Oslo

SODA SILICOFLUORIDE—100 bgs, Dunlap, Alpers & Mott, Copenhagen—200 bgs, Hummel Chemical Co, Copenhagen—400 bgs, D F Young, Inc, Copenhagen—400 bgs, Dabglish Chemical Co, Toronto, Copenhagen—170 bgs, H Sundheimer Co, Rotterdam

SODA SULPHITE—20 kgs, Davies, Turner & Co, Bristol

SPERM HEAD OIL—858 dms, United States Commercial Co, Yokohama

SPERMACETI WAX—250 cs, Talcahuano

SPINAL CORD—275 crates, The Van Gelder Fanto Corp, Lyttleton—124 cs, Tupman, Thurlow & Co, Napier

STARCH, SOLUBLE—60 bgs, Rohner, Gehrig & Co, Havre

STRONTIA—419 tons, E I du Pont de Nemours & Co, Wilmington, Bristol

TAMARINDSEED POWDER — 80 bgs, Stein, Hall & Co, Bombay

TAPIOCA FLOUR—8,500 bgs, Stein, Half & Co, Rio Janeiro

TARA PODS—1,592 bgs, Guaranty Trust Co, Salaverry

TEASEED OIL—100 dms, W R Grace & Co, Hongkong

THALLIUM SULPHATE—2 cs, Gdynia

THEOBROMINE — 210 cs, Mallinckrodt Chemical Works, Bahia

TUNG OIL—531 dms, Universal Trading

Corp, Shanghai—565 tons, Nanyang Development & Finance Corp, Shanghai—200 tons, Universal Trading Corp, Hongkong—385 tons, W G Smith Co, Cleveland, Hongkong—200 dms, Arnhold & Co, Hongkong—530 dms, L N Jackson & Co, Hongkong—85 tons, W R Grace & Co, Hongkong—208 dms, Murray Oil Products Co, Hongkong—450 tons, L N Jackson & Co, Shanghai—420 tons, Balfour, Guthrie & Co, Hongkong—907 tons, W G Smith Co, Cleveland, Shanghai

TUNGSTEN ORE—400 bgs, Watson-Geach Co, Recife

WHITING—3,800 bgs, Nicholas H Weitzner, Antwerp

WOLFRAM ORE—500 bgs, Watson-Geach Co, Hongkong

YACCA GUM—375 bgs, Irving Trust Co, Adelaide

ZIRCON ORE—17,460 bgs, Bank New South Wales, Brisbane

ZIRCON, RUTILE & ILMENITE SAND—19,088 bgs, Bank New South Wales, Brisbane

Baltimore

ASBESTOS—1,000 bgs, Lourenco Marques

CASSIA—150 bls, Arnhold & Co, Hongkong

Boston

CHALK—400 bgs, L A Salomon & Bros, Antwerp

GLUESTOCK—229 bls, J Gorvers Co, Barranquilla

PETROLEUM, CRUDE—102,805 bbls, Colonial Beacon Oil Co, Las Piedras

SODA SILICOFLUORIDE—250 bgs, Irvin W Sobin, Antwerp

WHITING—3,000 bgs, Nicholas H Weitzner, Antwerp

ZINC OXIDE—500 bgs, Innis, Speiden & Co, Antwerp

Norfolk

FUEL OIL—85,000 bbls, Standard Oil Co N J, Aruba

MANGANESE ORE—8,993,712 lbs, E J Lavino & Co, Durban

WATTLE BARK EXTRACT—2,012 bgs, River Plate Import & Export Corp, Durban

Philadelphia

BONES—1,000 bgs, Baugh & Son, Barranquilla

CHROME ORE—8,000 tons, E J Lavino & Co, Masinloe

FUEL OIL—100,693 bbls, Petrol Corp, Curacao

GLANDS—151 cs, W J Jones & Co, Lyttleton

SODA SILICOFLUORIDE—143 bbls, H Kohnstamm & Co, Copenhagen

VANILLA BEANS—10 cs, M Cortizas & Co, Marseilles

WATTLE BARK—1,650 bls, River Plate Import & Export Corp, Durban—2,200 bls, Bank of New York, Durban—Extract, 2,121 bgs, River Plate Import & Export Corp, Durban—6,102 bgs, Bank of New York, Durban

San Francisco

CASSIA—300 bls, S L Jones & Co, Hongkong

OITICICA OIL—243 dms, S L Jones & Co, Fortaleza

TEASEED OIL—106 dms, Pacific Vegetable Oil Corp, Hongkong

TUNG OIL—761 tons, Pacific Vegetable Oil Corp, Hongkong—300 dms, Otto Sales Corp, Hongkong—600 tons, Pacific Vegetable Oil Corp, Shanghai

Chemical Workers Weekly Earnings Up

Weekly earnings of factory workers in chemical and related fields showed a light increase in December, as compared with November. A breakdown of the weekly earnings for the chemical and allied industries follows:—

Average Earnings

	Weekly		
	Dec., 1946	Nov., 1946	Oct., 1946
Chemical and allied products	$47.14	$45.88	$45.50
Ammunition	47.38	46.98	45.80
Chemicals	54.15	52.96	52.87
Cottonseed oil	36.52	35.14	33.47
Drugs, medicines, insecticides	42.01	41.06	39.91
Explosives, safety fuses	51.50	49.53	50.26
Fertilizers	34.64	32.97	33.87
Paints and varnishes	49.38	48.16	47.07
Petroleum refining	58.55	57.11	57.32
Rayon, allied products	43.76	43.31	42.98
Soaps	52.93	48.06	47.85

Sterling Drug Hearing Scheduled by FTC

The Federal Trade Commission has announced that the taking of testimony and the receipt of evidence in its action (docket No. 5441) respecting Sterling Drug, Inc., will begin at 10:00 a.m., March 4, in room 500, 45 Broadway, New York.

Webster Ballinger, an FTC trial examiner, has been designated and appointed to take testimony and receive evidence in the proceeding.

Trade Briefs

Sidward Manufacturing Company has been formed in New York to deal in chemical products.

Beeker's Company has been organized in New York for the manufacture of cosmetics.

Lustray Laboratories has been organized in New York to deal in toilet preparations and soaps.

Alfresbro Corporation, manufacturer of aromatic chemicals, Cincinnati, will open a New York office at 92 Reade street.

Lemongrass Oil exports from El Salvador are estimated at 1,200 gallons annually. Virtually all the oil goes to the United States.

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Pfizer & Co. Starts Plant Expansion in Connecticut

Charles Pfizer & Co., pioneer American chemical manufacturer, has outgrown its location in Brooklyn, N. Y., and gone to Groton, Conn., to get more room and facilities for its expanding operations. The Victory Yard site which it acquired there from the War Assets Administration, together with adjoining property privately negotiated for, gives it approximately 70 acres, on which there are thirty-three buildings, twenty-six of major construction. The property fronts on deep water and has 708 lineal feet of finger pier and 665 lineal feet of bulkhead pier. Also among the facilities are 2½ miles of railroad track, a firefighting system, a roadlighting system, and electrical and water distributing systems.

The Civilian Production Administration has authorized the company to construct a new powerhouse, a new citric acid plant, and a saltwater pump house, and to alter the existing fabrication and machine shops for chemical processing. Work has already been started, and it is expected that production operations can be started early in 1948.

A master plan for the 70-acre Groton plant has been developed, which will permit of the proper installation of all future processing buildings, laboratories, warehouses, packaging departments, and research and development units. In accordance with this program steam will be generated in the new powerhouse at high pressure and fed to electric generators. Low-pressure steam passing from the generation of electricity will be reused for chemical processes. With this arrangement, it is expected that an economical electric-steam balance will be maintained in all processes.

Provisions are also being made for furnishing vital services and facilities, such as adequate fresh-water supply, saltwater supply for cooling purposes, electrical substations for distribution of high voltage electrical current, fuel oil handling, receipt of raw materials in bulk and their distribution throughout the plant. These will be installed so as to permit future processing buildings to be erected and equipped at a minimum of cost and time. Design work for all these installations has been practically completed and actual construction was recently started and will be intensified the early part of this Spring.

Production at Groton will in large part augment operations at Brooklyn in the fields of organic chemical manufacturing by the fermentation and other synthesizing processes which Pfizer & Co. has developed. The two methods run parallel and also progressively feed one another. Special attention is to be given to the production of streptomycin and bacitracin and the development of yet other antibiotics.

The increasing need for larger production of citric acid will also be met at Groton. This, in truth will be one of the most rapidly developed operations there. Pfizer & Co. began making citric acid by the vegetative fermentation of sugar in 1923, after more than a score of years of research and experimentation. This took the supplying of citric acid out of the hands of foreign monopoly. Consumption of citric acid has long been heavy, in the food and drug industries; it is still growing. Also there is an increasing demand industrially as well as medicinally and in foods, for the citrates of inorganic bases—sodium, potassium, ammonium, aluminum, as well as the double salts, such as iron-ammonium citrate. Newer demands now expanding cover the citric acid esters which are found useful as plasticizers in lacquers, molding powders, and other products. These include tributyl citrate, triethyl citrate, acetyltributyl citrate, acetyltriethyl citrate, and others. Demand has outstripped supply.

Still newer among the projects for Groton are gluconic acid and its compounds and the anhydride, glucono-deltalactine, derivatives of glucose. The acid finds use in the making of stable solutions of metals, in cleansing operations in dairying and in laundering, and in the surface treatment of metals. It also finds its way beneficially into foodstuffs and medicine, mainly as calcium gluconate, also as the anhydride, which is an adjuvant in leavening. This group at Groton will include also ferrous gluconate and copper gluconate, now finding use in the treatment of anemia.

Charles Pfizer & Co., was started ninety-eight years ago as a partnership by Charles Pfizer and Charles F. Erhart, for the production of fine chemicals in Brooklyn. It was incorporated May 21, 1900. It has been, from the start, a growing concern, in undertakings and research, as well as in production volume. It has one of the most active and best reputed research staffs in the American chemical industry. Its contributions to the industry have been large in variety of compounds and in facilitation of their industrial application. Its work has been quite evenly balanced between the development of new compounds and the improvement of processes and quality with respect to those which it early began to make.

In addition to its pioneering in the fermentation production of citric acid, Pfizer & Co., was one of the leaders in the production of penicillin and it has a high production rank. Work has also been done in streptomycin and bacitracin, and in clinical experimentation with these drugs the company has a large and important part. It has also been prominent in the development of vitamins, especially ascorbic acid, and its other products include tartaric, fumaric, and oxalic acids and their salts, mercurials, bismuth salts, and iodides. Its direction has always been by chemically-minded men, blending in their group purposes of scientific attainment with knowledge of the needs of consumers of chemicals in all fields and understanding of their interests. Its present management looks upon the Groton expansion as a bigger opportunity thus to serve.

Trade Briefs

B. F. Goodrich Company, Akron, Ohio, is issuing a new catalogue section on its lines of air hose, used in many industrial fields.

Stuart Oxygen Company has obtained Civilian Production Administration approval for construction of a storage building in Los Angeles.

Julius Hyman & Co., manufacturer of insecticides, Denver, announces that its new plant in that city is now in production.

Pennsylvania Salt Manufacturing Company, Philadelphia, has developed and is now selling a new liquid 2,4-D compound, "Knox-Out Weeds Liquid."

Air-Borne Cargo Lines, Inc., has elected as executive vice-president Colonel John N. Stone. For the past ten months he has been chief of operations of the company's principal base.

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Borax Claim Working Bids to Be Asked

OPD Washington Bureau

Bids will be asked shortly by the Department of the Interior for the leasing and development of the little Placer borax claim in Kern County, Calif., as a result of action last week by the Secretary in refusing a rehearing to the Burnham Chemical Company on its application to lease the property.

The Little Placer claim is adjacent to the Western Borax mine of the Pacific Coast Borax Company and is highly valued because of its extensive deposit of kernite, a pure form of borax.

The Western Borax mine was involved in the recent anti-trust suit of the government against the borax industry and is to be sold to the highest bidder by R. E. Allen, receiver for the United States. A minimum price of $491,200 has been fixed on the property by the court.

While terms and conditions of the offering of the Little Placer claim have not been completed by the department, it is proposed to require that not less than $250,000 worth of development work be done on the property, unless it is acquired by the purchaser of the Western Borax mine.

It was explained that the kernite deposit in the Little Placer claim can be reached from the opening in the Western Borax mine and that is the reason why the $250,000 worth of development work on the Little Placer claim will not be required if the same operator acquires both properties.

Standards Ass'n Issues New Approved List

A list of 864 standards approved for national use of industry by the American Standards Association has been made public and available for general distribution, P. G. Agnew, vice-president of the association has announced today.

"The revised list of standards, which includes many of those developed under war procedure and now approved for peacetime use, will be made available to interested trade, technical, and governmental bodies and individuals without charge," Dr. Agnew said.

The standards listed include definitions of technical terms, specifications for metals and other materials, methods of work and methods of test for finished products. They reach into every important engineering field. They also include standards dealing with public and industrial safety, industrial medicine and a wide variety of consumer goods.

Schering Selects Subject For 1947 Award Competition

The Schering Corporation, manufacturer of pharmaceuticals, Bloomfield, N. J., has selected "The Clinical Use of Androgens in the Female" as the subject for the 1947 Schering award competition among medical students in the United States and Canada. Cash prizes of $500, $300 and $200 will be given for the best manuscripts received on the subject. The contest closes July 31.

Trade Briefs

Flavored Syrups, Inc., has been organized in New York for the operation of a plant making syrups and flavors.

Frederick Stearns & Co. Division of Sterling Drug Inc., Detroit, has added Digitoxin to its list of prescription specialties.

China's first penicillin plant, which was put into operation January 1, is reported to have a capacity of 100 vials daily.

Libbey - Owens - Ford Glass Company, Toledo, Ohio, has appointed H. L. Monteith eastern regional sales promotion manager.

Cinchona bark harvest in the Belgian Congo is estimated at 600 tons for 1947, which will produce 42,000 kilograms of quinine sulphate. Four hundred tons of the bark will be processed in the Congo and the rest exported.

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Pulp and Paper Technicians

—Continued from page 7

by Norval F. Wilson of the Alton Box Board Company, indicated that the product in each case had certain desirable qualities necessary in the making of an acceptable grade of corrugated board. The Riehle test has been shown to be one of the most reliable indications of straw quality, he said.

Agricultural residue pulps were compared by S. I. Aronovsky and E. C. Lathrop, Northern Regional Research Laboratory, with typical wood pulps in an evaluation program. The wood pulp controls included hardwood and softwood sulphates, softwood neutral sulphite and kraft, and hardwood soda pulp. The agricultural pulps, it was stated, were secured by the soda process from wheat and rice straws, sugarcane, bagasse, flax shives, and hemp hurds. The beating and strength characteristics of these pulps were compared using the same methods and equipment. The results, it was said, show that the agricultural residue pulps compared favorably with the wood pulps in all of the strength tests, except tear resistance.

Water

Modern methods of water chlorination and theories of how chlorine kills bacteria have recently been revised, L. L. Hedgepeth of the Virginia State Water Control Board, told the meeting on water. W. G. Stromquist, of the Tennessee Valley Authority, cited the cooperation of industry with the Tennessee Stream Pollution Control Board which is resulting in the attainment of clean rivers.

Recent developments in the determination of biochemical oxygen demand was discussed by Louise E. McGrath, Booth Chemical Company. The waste water from paper mills carry such organic matter as fibres, resins, starches, and other materials which are capable of bacterial decomposition, she said.

These organisms, she stated, depend upon the oxygen dissolved in the water for their life processes, and if decomposition of these mill wastes use up the oxygen, stream pollution advances. Since the oxygen necessary for the decomposition of these wastes follows a biochemical law, the speaker said, determination of the amount of oxygen indicates the amount of matter present that is capable of decomposition.

The amount of oxygen measured, she added, indicates biochemical oxygen demand. In order to insure oxidation of the contained matter, she said, waste water must be diluted.

At present, the paper read, a dilution water containing portions of five different chemicals is considered a standard. Biochemical oxygen demand results were expressed as parts per million, as population equivalent, or as pounds of oxygen per ton of product, and is useful in indicating how a paper mill waste will act after it has been discharged into a stream.

Engineering

To eliminate and solve difficult watermarking problems, Henry D. Johnston, of the Strathmore Paper Company, said the firm experimented with the use of a positive power drive to the dandy roll. After a mechanical trial, he said, electrical Spencer drives were applied to the dandy roll. This drive was said to give instant response to paper machine speeds and accurate adjustment of the dandy roll to any desired lead over the wire speed.

In addition to the improvement in watermarking with its consequent improvement in appearance which is financially hard to evaluate, Mr. Johnston said, it was found that paper machine speeds could be increased considerably and still retain the good appearance. This amounted to about 20 percent, he said, and the installation soon paid for itself, economically.

W. R. Hough and J. L. Van Nort, of Reliance Electric & Engineering Company, held that spot conversion drives, small a.c. to d.c. current converters with variable d.c. voltage regulation for installation at individual machines, enables operation of paper making machines at optimum speeds for the most economical production. They said these spot conversion drives are preferred over general conversion drives because of their flexibility.

Four considerations are represented as being of paramount importance in arriving at the right choice of a system for any given installation. These considerations, given by Richard Nelson, of Kimberly-Clark Corporation, are cost of the installation, flexibility of reuse, cost of maintenance, and operating performance.

The importance of power costs for driving high speed paper machines and the steam costs for drying the paper produced on the machine were stressed by R. R. Baker, Westinghouse Electric & Manufacturing Company, in a discussion of heat balance. In the modern high pressure and temperature steam generating plants, he said, economy is effected by generation of a large part of the power requirements as a by-product of the process steam requirements. This is effected through the use of bleeder type turbine units, he added.

A study of certain factors affecting the filtration of smoke by fibrous materials, Mr. Baker said, revealed that the most important factor governing the choice of fiber for aerosol filtration was fiber diameter. Filtering efficiency, he said, increased with decreasing fiber diameter, and at constant sheet weight, filtering efficiency is dependent upon sheet density. The addition of small amounts of fillers such as asbestos or celite, he said, also increases filtering efficiency.

Color

During the session on color, discussions were held on such subjects as the paper man's interest in color; colorimetric standardization in industry; color order systems from material in like-media to systems that represent increasing definitions of a useful color space; spectrophotometry; color engineering; and interrelation of color specifications.

Spectrophometric data, according to J. A. Van den Akker, of the Institute of Paper Chemistry, is useful in mill paper color control and fundamental research. However, he said, a need for a psychophysical bridge between purely physical data and color sensation is needed to convey the idea of color change to the mind. Such a need, it was claimed, is supplied by use of the I.C.I. standard observer and coordinate system.

Packaging Materials Testing

A symposium of methods of determining water vapor permeability, with particular reference to low temperature determinations, was a feature of the meeting in view of the wider use of paper containers in the expanding frozen food industry, and the food industry in general.

Among the methods discussed were refinements in the technic of the gravimetric (weighed cell) method; the Polytechnic Institute of Brooklyn method, a low temperature procedure for measuring the transmission of odor through packaging materials, and a vapor flow method at zero degrees Fahrenheit, which employs the flow of air saturated with water vapor at zero degrees Fahrenheit over one side of the test sheet, while air of essentially zero relative humidity at zero degrees Fahrenheit is passed over the other side of the sheet.

For this latter method, Frederick H. Cherepow, of the Marathon Corporation, claims many advantages because the test assembly is not subjected to wide temperature-humidity variation.

H. H. Hartwig, also of the Marathon Corporation, described a method of testing for the location of points of gas leakage in packages and packaging materials. This method, he said, employs application of a solution of stannus chloride on one side and hydrogen sulphide gas under slight pressure on the other side of the specimen.

Mechanical Pulping

E. R. Schafer of the Forest Products Laboratory, in discussing the use of Quaking Aspen in printing papers, pointed out that pulp of increased freeness and higher strength can be produced by grinding on a duller stone surface. For a given quantity, he said, the production rate is higher and the energy consumption is lower than on a sharper stone.

A comparison of spruce and aspen ground under the same conditions, Mr. Schafer stated, showed a higher energy consumption, a lower grind-

ing rate, higher strength, lower freeness, and shorter average fiber length for spruce than for aspen. Indications were, he added, that for equal strengths, aspen would require much higher energy consumption than spruce.

E. L. Keller of the Forest Products Laboratory reported on the effect of preimpregnation, pulping degree, and pulping temperature in semichemical pulping. The use of a preimpregnation stage in semichemical pulping to 85 percent yield resulted, he said, in aspen pulps that were uniformly softened, lighter in color, and higher in strength than the conventional one stage digestions using an adequate amount of chemicals.

In pulps produced in the range of 62 to 86 percent yields, Mr. Keller said, the holocellulose, Cross and Bevan cellulose, and alphacellulose increased, the lignin decreased, and the strength properties increased as the pulp yields decreased. A slight increase in temperature, ten degrees Centigrade, in the range of 155 to 175 degrees, Centigrade, shortened the time to the same degree of delignification by slightly more than one half, Mr. Keller stated.

Acid Pulping

Technical men from the Marathon Corporation reported to the session on acid pulping on experimental pulping of Eastern Hemlock to establish the influencing factors on yield of lime-precipitated lignin from the resulting waste liquors. Results show, they said, that the highest yield of precipitated lignin is obtained from pulps having the lowest permanganate numbers.

It was stated that when liquor from pulps of low permanganate number is processed, the recovery of lignin is practically unaffected by composition of the cooking acid or maximum temperature over the range studied. When pulps of higher bleachability are produced, it was added, lignin recovery is more favorable at lower concentrations of unreacted sulphur dioxide; and, to a lesser extent, at lower combined sulphur dioxide in the cooking acid.

E. E. Harris of the Forest Products Laboratory discussed the propagation of yeast from wood sugars contained in sulphite waste liquors and wood hydrolyzates. This yeast may be for either human or animal consumption, he said. The sterile liquor which has been steam stripped to remove sulphur dioxide, he said, is neutralized to a pH of 4.0 to 4.5 with lime and filtered. It can be further concentrated before inoculation, Mr. Harris added.

Pulp Purification

Bleaching pulp with mixtures of chlorine and chlorine dioxide was discussed by G. P. Vincent of the Mathieson Alkali Works. He pointed out that hypochlorite bleaching in the final stages shows considerable degradation, as compared with a solution of chlorine dioxide with or without chlorine.

A mixed gas, he said, instead of chlorine dioxide alone, results in a slightly higher brightness. Excellent strength retention is reported with these materials, and the use of the mixed gas is more economical per unit weight of available chlorine, Mr. Vincent claimed.

W. P. Lawrence of the Champion Paper & Fiber Company reported that sodium chlorite was used as a finishing bleach for raising Southern pine kraft pulp from a G.E. brightness of 60 to 70, to 80, to 84. For a given brightness, he said, predried pulp yielded a few points higher ultimate brightness than slush pulp.

Mr. Lawrence stated that alkaline chlorite under proper controlled conditions gave results about equal to acid activated chlorite. Of the several process variables investigated, he added, pH and ratio of hypochlorite to chlorite appeared to be the most important alkaline chlorite bleaching.

Other papers presented at this session covered comparative studies in the chlorination of wood pulp, and the cold alkaline purification of wood cellulose.

Paper Deinking

H. P. Bailey of the International Paper Company in discussing alkali and heat recovery in deinking, indicated that if waste paper is deinked in a low density circulating system at 4 percent consistency and a cooking temperature of 170 degrees Fahrenheit, with 4 percent caustic soda based on the weight of paper, it should be possible to effect economies in alkali and steam costs of 50 to 70 percent.

T. T. Collins and others of the Pease-Anthony Equipment Company, described equipment by which scrubbing of the fume of sodium salts from sulphate or soda furnace stack gases is effected. The equipment, they said, consists essentially of a venturi through which the waste gases going into the stack pass at a high velocity while, at the same time, recirculated water injected into the construction is atomized by the energy of the gases under the extremely turbulent conditions existing in the throat and is then removed by a dry cyclone following the venturi atomizer.

Efficiencies in a pilot plant of sodium removal as high as 99 percent were reported. The combined equipment atomizer and cyclone equipment has an estimated power consumption for large scale operation of approximately 43 kw.hr./ton of pulp, it was stated.

Plastics

Beater sizing with the silicones was discussed by C. J. Bergandahl and C. E. Libby of the New York State College of Forestry. Various silicone resins were investigated as beater sizes. One of the fast curing resins was found by them to be very satisfactory.

The amount of resin necessary using distilled water in the beating and sheet making operations was less that 0.1 percent, they said. The silicone must be added to the pulp stock at a pH value below 7.0, they added, and it is imperative to use the right type of water. A hard water will decrease the sizing effect of the silicones, according to the paper.

Discussing the three main methods of combining resins with paper, E. S. Bauer, of the Monsanto Chemical Company, pointed out that for long runs of a single grade of paper, the use of either the wet-web or the beater addition methods are more economical.

The off-machine method, he said, is the conventional method employed by the laminating industry. It has the great advantage of versatility and allows for the use of the widest variety of papers and of resins, according to Mr. Bauer. The wet-web and beater addition methods have augmented but will not replace the off-machine method, he added.

D. J. Salley and A. F. Blockman, of the American Cyanamid Company, discussed the effect of melamine resin on the bonding of paper fibers. The effect of melamine resin used in producing wet strength paper, they said, was investigated from the standpoint of its effect on the ultimate strength of the fibres, and upon the adhesion of the fibres. Measurements of tensile strength at zero and one inch spans and by a sheer adhesion test indicated, they added, that the effect of melamine resin is almost entirely upon the adhesion of the paper fibres, with little or no effect upon ultimate strength.

Coating Testing

The use of urea resins along with starches as adhesives for clay coatings was studied by P. S. Hewett and others of the Reichhold Chemicals Company. The importance of the variables of time, temperature, and pH were stressed by the paper. Starches considered were the enzyme converted, acid hydrolyzed, and chlorinated. These were used in varying proportions with urea resin in prepared color coatings. Urea resin offers several advantages in starch coatings over regular starch materials, the paper stated, the most important of which were improved water resistance, brightness, and the wax test.

A. D. McLaren, of the Polytechnic Institute of Brooklyn, stated that the adhesion of high polymers to cellulose involves a number of physical peramters including the dielectric constant of the polymer, the dipole moment of the polymer constituents, the facilities for hydrogen bonding at the polymer-cellulose interface, and the micro-Brownian movement of chain segments.

The meeting closed with the annual luncheon at which Mr. Nicholson presided. The luncheon was followed by an address delivered by Gerald Wendt, editorial director of "Science Illustrated." The TAPPI medal was presented to Peter J. Massey, Bryant division of St. Regis Paper Company. There also were presentations to the association's Chicago section and Ohio section.

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OPD Washington Bureau

An automatic high-speed device for recording the ultraviolet absorption spectra of chemicals, developed at the Naval Research Laboratory, Washington, D. C., is described in a report now on sale by the Office of Technical Services, Department of Commerce. The device makes it possible to obtain accurate readings in about one-twentieth of the time required by manually-operated instruments.

Orders for the report ("An Automatic Recording Spectrophotometer"; PB-46540; photostat, $2; microfilm, $1), should be addressed to the Office of Technical Services, Department of Commerce, Washington 25, D. C., and should be accompanied by check or money order, payable to the Treasurer of the United States.

Dr. Swenson Resigns Farm Chemistry Post

OPD Washington Bureau

Dr. T. L. Swenson, special assistant to the chief of the Bureau of Agricultural and Industrial Chemistry of the Department of Agriculture has resigned to accept a position with the Stanford Research Institute.

In this new position, Dr. Swenson will have charge of the institute's food research program. Dr. Swenson leaves the department after almost eighteen years of service. He was responsible for the formulation of the research program in the Western Laboratory as well as the equipping and staffing of that important research center.

World Trade Week Observance May 18-24

OPD Washington Bureau

The United States Chamber of Commerce has announced that invitations have been sent to 6,000 chambers of commerce, trade associations and business firms throughout the nation to participate in the observance of World Trade Week, May 18-24. The event in former years was known as National Foreign Trade Week.

Fish Retires as Bemis' Kansas Sales Representative

The Bemis Bro. Bag Company, St. Louis, announces the retirement of Edwin B. Fish from the Salina, Kans., office, where he has been in charge of sales in Northern Kansas for more than thirty years. Ralph V. Prewett, assistant to Mr. Fish since 1927, will take charge of the Salina office and will be assisted by Harvey C. Wilson, who is being transferred from Bemis' Kansas City office.

Rheem to Construct Australian Plant

Rheem-Australia Pty. Ltd., Australian affiliate of Rheem Manufacturing Company, has acquired a site in Freemantle, largest port in western Australia, and will erect a plant to manufacture steel shipping containers, it was announced February 25 by R. S. Rheem, president of the American company. Initial production is scheduled for the Fall.

India Sets Standards For Indigenous Drugs

An Indian Pharmacopoeial List, laying down standards for indigenous drugs in use in the country, has been published for the first time by the government's Drug Technical Advisory Board. The publication meets the deficiency of the absence of any recognized standards of strength and quality of drugs of plant origin which have been used in India for centuries.

Trade Briefs

Schmidt Chemical Company has been organized in New York for the manufacture of chemical products.

Algerian producers of essential oils recently offered on the market 6,000 pounds of cedarwood oil, 1,200 pounds of rosemary oil, and 900 pounds of mint oil.

Fred Griffiths, executive vice-president of the National Association of Chain Drug Stores, has been elected a member of the advisory committee for the first annual Store Modernization Show, which will be held at Grand Central Palace, New York, the week of July 7.

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Penicillin Output Reported for 1946

The monthly rate of penicillin production more than doubled during 1946, according to the Civilian Production Administration. Total production amounted to 25,808,570,000,000 Oxford units; military, 1,998,640,000,000 Oxford units; other government agencies, 407,580,000,000; civilian, 16,614,740,000,000; export, all forms, 12,155,000,000,000 and final allocation, 32,690,630,000,000.

Finnish Government Plans To Enter Drug Business

Legislation authorizing the establishment of a government drug and medicinal corporation has been proposed in Finland. The corporation reportedly will import chemicals and medicinals and sell them at lower prices than the medicines offered by the seven plants already operating in that country.

Plans also include domestic manufacture of medicines previously imported, with a view to distribution at reduced prices. The medicinals will be sold chiefly to government establishments, according to Finnish press reports.

Trade Briefs

Chase Bag Company, Chicago, is observing its one hundredth anniversary.

J. Lucore & Co. has been organized in New York for the manufacture of chemical products.

Rexall Drug Company's board of advisers will meet at the Palmer house, Chicago, March 3.

Animal Health Institute will hold its annual meeting at the Jefferson hotel, St. Louis, April 14-15.

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Botanical Drugs, Spices, Gums

Price activity was almost entirely within the group of condimental botanicals last week. However, scarcity of belladonna leaves brought a very sharp advance but the tight situation in supply made almost any price have little real meaning. Also, buckthorn, pale rose buds and Belgian valerian were lower. Condimentals continued the downward price trend that started some weeks back and which has continued virtually without interruption. These price declines have been definitely in line with the recent trend in most commodity prices regardless of article or market.

The carryover of practically medicinal botanicals into the new collection season will be relatively small and probably much below normal peacetime totals. The botanical market crop year begins with the Spring months; and the fiscal year of well organized botanical houses usually runs from July through June. Hence, the crop year of 1946-1947 is virtually at an end and it finds stocks of medicinal botanicals at low ebb in most materials.

Had not detentions by the Food and Drug Administration been so large during the year—they amounted to over 2,000,000 pounds, according to the Department of Agriculture—the carryover situation would not have been so acute so far as foreign botanicals were concerned. But nothing could have changed the situation in domestic botanics except a collection far larger than was obtained last Spring, Summer and Autumn.

It is the intention of botanical drug merchants to do everything possible, first, to stimulate collection of domestic items, and, second, to not only influence larger collections abroad but to persuade foreign shippers so to prepare and pack their stocks as to assure their passing on arrival in this country. Both of these projects are difficult undertakings and their supporters are not too confident of success.

Market Trends

Prices Advanced

Drugs

Belladonna leaves, 30c. per lb.
Ginger root, African, ¼c. per lb.
Goldenseal root, 25c. per lb.

Other Articles

Mace, West Indian, futures, 10c. per lb.
broken, futures, 10c. per lb.
Mustard seed, California, brown, ½c. per lb.
Nutmegs, West Indian, futures, 5c. per lb.
Turmeric root, Alleppy, 1c. per lb.
Madras, 1c. per lb.
Haitian, ½c. per lb.

Prices Reduced

Drugs

Buckthorn bark, 4c. per lb.
Ginger, African, futures, ½c. per lb.
Orris root, Verona, 11c. per lb.
Rosebuds, pale, 8c. per lb.
Valerian root, Belgian, 2c. per lb.

Other Articles

Anise, Argentine, 4c. per lb.
Cyprus, 4c. per lb.
Chinese, star, ½c. per lb.
Mexican, 4c. per lb.
Syrian, 3c. per lb.
Cassia, China, select, rolls, ½c. per lb.
broken, extra select, 1c. per lb.
Saigon, all medium, 1c. per lb.
Celery seed, India, 1½c. per lb.
Cinnamon, No. 2, Ceylon, 16c. per lb.
Cumin seed, Syrian, 1c. per lb.
Persian, 1c. per lb.
Dill seed, dewhiskered, ½c. per lb.
Fennel seed, Indian, 1c. per lb.
Laurel leaves, Algerian, 3c. per lb.
Italian, 3c. per lb.
Mustard seed, Danish, yellow, 1c. per lb.
Nutmegs, Banda, futures, 20c. per lb.
Paprika, Spanish, choice, 1c. per lb.
fancy, 1c. per lb.
Pepper, black, futures, ½c. per lb.
Sage, Dalmatian, 1c. per lb.

Comparative Price Indexes

(100=August 1, 1914)

Last week.	Prev. week.	Last month.	Last year.
286.5	282.4	286.3	277.8

(For Current Prices see Page 9)

Balsams

Copaiba—A steady spot market accompanied fair sized request which was supplied without much competition being encountered by sellers.

Fir—Stocks of Canadian balsam were quite small, a fact that accounted for the very firm and relatively high price that prevailed. Oregon balsam was steady to firm but was in fair reserve.

Barks

Barberry—The supply was light but so was demand. Replacements were not readily available in primary markets. Quotations on spot held steady.

Buckthorn—Prices were lower at 34c. to 36c. per pound; cut and sifted, 45c. to 46c.

Cinchona — Reports from official sources stated that the Dutch plantations on Java are in good shape barring some young plantings which the Japanese during the occupation allowed to go to weeds. Once the political troubles of the Dutch and Indonesians are composed, resumption of exports are likely, possibly under an allocation scheme based on historical imports by various countries.

Dogwood—Spot business was light to irregular but prices held steady.

Imports Detained by FDA

Week Ended February 21, 1947

New York

Arnica flowers, 7 packages: insect infested.
Cassia oil, 25 drums: not USP.
Cardamom seed, 20 cases: filthy.
Corn Silk, 25 bags: filthy.
Digitalis, 106 packages: not USP.
Honey, 100 cartons: contains commercial invert sugar.
Nutmegs, 457 bags: wormy.
Orange peel, 28 bags: insect infested.
Rhubarb root, 24 cases: insect infested.
Tamarind, 150 bundles: insect infested.

Atlanta

Black pepper, 550 bags: excess siftings and pickings.

An arrival of 133 bags from Kingston, Jamaica, was noted.

Sassafras—Demand of a seasonal sort was reported well maintained with the result that current quotations were definitely firm.

Simarubra — Further additions to spot supply resulted from the arrival of 13 bales of this bark from Kingston, Jamaica.

Soap — Consumption continued at excellent totals, resulting in the welcome addition of 3,184 bags that reached here from the Chilean primary market.

Beans

Calabar—Lack of supplies generally distributed on spot meant little since interest in the bean was entirely academic.

St. Ignatius—Those who want this article can get it from primary market points but those concerned with its importation say there is little attention being paid to offerings.

Berries

Juniper—Further additions to spot stocks were noted; the quantity was 783 bags and it came from Leghorn, Italy. Demand was good but entirely routine in character.

Saw Palmetto—Business was along jobbing lines that left prices unchanged from their recently very firm position. Stocks were of fair size in local circles.

Flowers

Arnica—It seems almost impossible to get any substantial amount of this material from foreign parts to this country—and plenty of efforts have been made to that end. The market, in the case of most dealers, was purely nominal.

Chamomile—Demand of a steady sort was well maintained last week. The movement into consumption and the replacement prices prevailing in Argentina were more than sufficient to give a virtually strong undertone to current quotations.

Clover—More inquiry and some increase in sales was the lone feature in this item. Pricewise, the market was steady to firm. As to supplies, they were subnormal but they seemed to be meeting the current volume of consuming request.

Linden—Stocks were still restricted to flowers with leaves, the price for

For Late Market Developments, See Page 4

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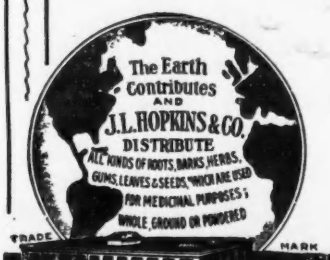
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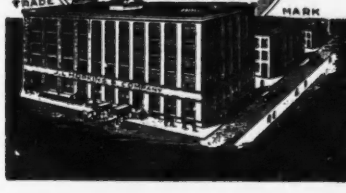

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which was firmer at 65c. to 70c. per pound with less tendency toward even occasional shading being reported.

Rose—Pale rose buds were more competitive at 25c. to 26c. per pound.

Gums

Benzoin—The market continued to work toward a more competitive position, but replacement costs now prevailing at the source are a brake on any substantial shading of the open quotations named on spot.

Karaya—Consumption is active and substantial enough to keep a stream of replacement orders going to the India market. Last week, arrivals from Bombay totaled 1,631 bags. The market here was very firm as to price. So was it at the source.

Mastic—Another lot of this gum arrived last week, thus tending to increase the available spot stocks and making for potential easiness as to prices. The arrival of 100 cases from Piraeus, Greece, as the shipping point, but the gum originated on the island of Chios.

Olibanum—Any low stocks in the market are gradually being relieved; an additional 17 bags came in from Aden last week. The movement was routine in character, but of fair size that tended to hold prices very steady.

Herbs and Leaves

Belladonna—The market supply has decreased sufficiently to induce an advance in prices, a movement more than sharp. The market touched $2 to $2.25 per pound, considered to be nominal, late in the week.

Buchu—Stocks remained short and prices remained strong. They lacked further change, but the tendency was upward. All competition has been eliminated from the market. Relief must await further arrivals of representative quantities from Capetown, South Africa.

Henna—The 133 bales that arrived last week from Karachi, India, will find ready takers. Demand has been excellent for some time past, thus creating a market of firm to strong undertones and curbing most tendency toward competition.

Laurel—In keeping with the price trend in most commodity price trends at this time, Algerian leaves dropped to 13c. to 13½c. per pound. The Italian, 13c. to 13½c. Ordinary quality Portuguese, 13½c. to 14c.

Sage—Dalmatian sage in future arrival position was lower at 33c. to 34c. per pound. The balance of the group lacked quotable change in prices.

Senna—Imports were 295 bales of leaves and 15 bales of pods, both from Tuticorin, India. The market was very strong at the source and the strength there found reflection in iron-strong spot quotations. Demand was excellent.

Miscellaneous

Agaric—Limited quantities were in hand. However, the supply was equal to the extremely small demand current in the market for many weeks.

Areca Nuts—The price situation has become more stable. Current quotations have been in effect for several weeks and their steady character was in keeping with the availability of the material.

Corn Silk—Detention of arriving parcels continued. The latest detention was 25 bags, denied entry because of contamination by filthy substance. A further arrival was noted last week, being 57 bales coming here from Genoa, Italy. Limited stocks continued to hold prices very firm.

Kola Nuts—Moderate sized but quite steady demand contributed to price stabilization. Stocks were increased by the arrival of 33 bags from Kingston, Jamaica.

Roots

Angelica — Goods arrive steadily from Europe. The latest arrival was 20 bales from Antwerp, Belgium. The distribution of imported root was very good locally, being better than spot demand last week.

Belladonna—From Trieste came 25 bales of this root last week. Unsold stocks were reported to be small; some quarters lacked supplies entirely. The undertone continued to be very firm.

Dandelion—Demand was normally active and found not too much spot stock upon which to draw. However, supply was bettered moderately by the arrival of 34 bales from Antwerp, Belgium. This is one of the first reported lots of European root to arrive

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on this market. Most supplies had been coming from the Argentine.

Galangal—This "Chinese ginger" was in steady if not large request and prices remained very firm regardless of the fact that 200 bales of the root reached this market from Hongkong last week.

Goldenseal—The market was higher at $8.75 per pound for whole root, the result of export sales having taken liberally of the goods available. The outlook for new crop was not good.

Ipecac—Small lots arrived from primary market points. They were:—from Barranquilla, 29 bags; from Cartagena, 3 bags. Prices and market conditions continued strong at all points.

Mandrake—A strong undertone pervaded the spot in keeping with the absence of stocks sufficient in size to depress the market. Much of the future of values depends on the collection this coming season.

Orris—Leghorn, Italy, supplied 68 bags of this root which arrived during the past week. The market was dull as to demand and rather competitive as to prices.

Turmeric—Stocks of Alleppy root were virtually exhausted and prices at 22c. to 22½c. per pound were about nominal. Madras root was advanced to 17c. to 17½c., and Haitian was up to 15c. to 15½c.

Valerian—Belgian root was in better supply and prices were lower at 56c. to 58c. per pound.

Seeds

Anise—The whole group was weak in the absence of demand. Prices declined to 31c. to 32c. per pound for the Argentine and Cyprian varieties; Chinese star, 19½c. to 20c.; Mexican, 33c. to 34c.; and Syrian, 32c. to 33c.

Caraway—Roumanian and Swedish seed were unobtainable. Also, no offerings of domestic or Canadian seed were noted. Arrivals totaled 650 bags from Rotterdam, Holland.

Celery—Prices on Indian seed dropped sharply to 20½c. to 21c. per pound for spots and 21½c. to 22c. for futures.

Cumin—Inactivity on the part of buyers brought further price reductions in Syrian and Persian seed, both of which became 30½c. to 31c. per pound.

Dill—Dewhiskered seed was reduced fractionally to 10½c. to 11c. per pound.

Fennel—Indian seed was shaded to 25½c. to 26c. per pound. Argentine seed remained very steady at unchanged prices.

Fenugreek—Practically all spot stocks of this article have become exhausted. Also, none can be obtained in California. Future arrivals of India seed were offered at 10½c. to 11c. per pound.

Mustard—California brown seed was higher at 16½c. to 17c. per pound. Dutch yellow was lower at 19½c. to 20c. Other varieties of domestic seed lacked price change.

Poppy—No Swedish seed was obtainable on spot but its absence was scarcely noted in the presence of plenty of seed from Denmark, Holland, Argentina, and Turkey. An arrival of 700 bags from Holland was reported.

Spices

Cassia—Broken extra select China cassia rolls were lower at 11½c. to 12c. per pound. Rolls were up to 13½c. to 14c. All medium Saigon was down to 29c. to 30c. Other varieties and qualities of cassia were unchanged.

Cinnamon—No. 2 Ceylon dropped sharply to 64c. to 65c. per pound on fair-sized lots becoming available.

Mace—West Indian futures were nominal at the higher price level of $1.70 to $1.80 per pound; broken, in future arrival position, $1.40 to $1.50.

Nutmegs—West Indian material was minimum at 82c. to 83c. per pound for whole and higher at 80c. to 81c. for future deliveries. Banda nutmegs to arrive were much lower at 70c. to 71c.

Pepper—Black pepper futures were fractionally lower at 53c. to 54c. per pound. Spot held steady at 54½c. to 55c.

Markets at Other Centers

Los Angeles, Feb. 26.—Business in botanical drugs and spices remained quiet here this week. All stocks are exceedingly low. Prices here remain unchanged.

Marjoram — French type, 35c. per pound in dried form.

Sage—Dalmatian type, 34c. per pound for lots said to contain less than 12 percent stems.

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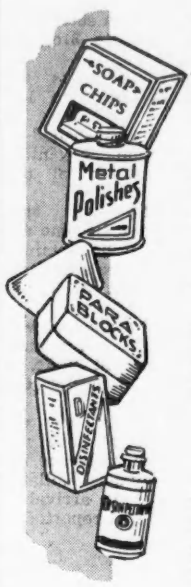

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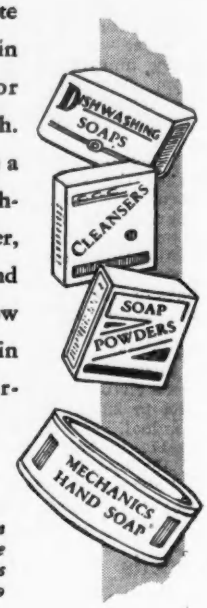

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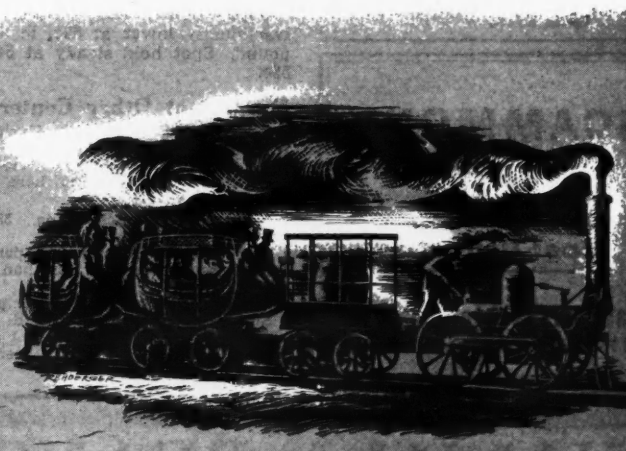

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Essential Oils, Other Aromatics

Essential oil prices continued to drop last week although the majority of oils seemed to have reached the level which sponsored the most healthy trading, and the number of oils reduced in price diminished considerably from the numbers which had been affected during previous weeks. Sweet birch oil, North, and Bourbon ylang ylang oils were the only items which were reduced during the past week, although several reductions were noted very late in the weeks previous.

Imports continued to flow into the American market at a rapid pace and in good variety. Important shipments of eleven different oils were recorded last week, and there were indications that the majority of them came from sources which could promise further definite stocks in the future. Palmarosa oil continued to enter the United States in limited quantities, a few pots at a time, but it was hoped that there might be some development in this item within the year. Australian stocks of eucalyptus oil featured imports last week as 101 drums were reported to have arrived in the market. In the overall picture, the import situation and prospects were thoroughly satisfying to dealers and consumers in the United States, and it was universally felt that the healthy condition would continue.

Some oils showed a little more strength pricewise last week as ranges were widened by advances. Bay and cubeb oils were quoted at higher prices by one dealer, in the face of what was reported to be a sudden improved demand. Generally, however, buyers maintained their conservative position and there was no exceptional interest displayed in any of the oils.

Market Trends

Prices Advanced

None

Prices Reduced

Ginger oil, dist., 50c. per lb.
Lavender oil, Spanish, spike, pure, 20c. per lb.
Linalool, 50c. per lb.
Savin oil, 50c. per lb.
Sweet birch oil, North, 50c. per lb.
Wormseed oil, 20c. per lb.
Ylang-ylang oil, Bourbon, $1.50 per lb.

Comparative Price Indexes

(100=August 1, 1914)

Last week.	Prev. week.	Last month.	Last year.
209.9	210.4	222.3	222.3

(For Current Prices see Page 9)

Essential Oils

Anise—Chinese oil continued to flow into the American market with heartening regularity last week, and there was little indication that there would be any diminishment of the supply within the year. Last week's imports totaled eighty-eight drums, shipped from Hong Kong. Stocks already in the United States moved quickly to lively spot and contract inquiries, and it was reported that prices continued to ease in view of the excellent supply situation. Interest in Russian oil was slight, since stocks were tight and prospects for replenishment were considered poor. There were no price changes in either type of oil during the period under review.

Bay—Outside price advances were noted in both West Indian and Puerto Rican bay oils last week as one dealer offered both types at $2 per pound. The range for West Indian oil, established by the change was from $1.35 to $2 per pound, 30c. per pound higher on the outside than the previous quotation; Puerto Rican oil advanced 20c. per pound on the outside, with stocks being offered from $1.43 to $2 per pound. Buyer interest was reported to be slackening slightly, although stocks were in relatively good condition, and the prospects for replacement from the Caribbean area were generally good. There were no imports noted during the period under review.

Cassia—Trading in the American cassia oil market continued at a rapid pace last week as stocks were readily available and the development of a steadily improved supply line from the Orient promised good future stocks. The high level of trading held prices steady and without change but a definite easing tendency was reported to be developing as stocks improved. Movement against all orders was rapid and particular attention was being displayed against spot stocks. Imports during the week totaled seventeen drums from Hong Kong.

Camphor—Development of a regular supply of camphor from the Orient began to take shape in a more definite form last week as twenty-five drums of the oil arrived from Hong Kong. Earlier, a good deal of surprise had been aroused when one dealer lowered his prices in the face of enduring shortages, and the subsequent arrival of fairly large shipments did little to convince the trade that the reduction was merited. Last week's arrival, however, helped to establish the conviction that the period of starvation rations had ended and that there were grounds for optimism regarding future stocks. Prices last week were firm in most quarters, and there were no variations reported.

Citronella—In spite of continuing buyer disinterest, moderately large shipments of oil were reported to have arrived in the American market from both the Orient and the Caribbean areas last week. Imports from Ceylon totaled forty-six drums of oil, while those from Honduras amounted to fifty-five drums. Very little interest had been evinced in Ceylon oil during recent weeks, and there was little indication that there would be any sudden increase in inquiry within the next few weeks. Some Caribbean oil was moving, but there was a generally dull air throughout the entire market. There were no price variations during the period under review, and all prices were steady to firm.

Cubeb—One dealer advanced prices for cubeb oil to $15 per pound late the previous week, widening the range from $2 per pound with offerings quoted from $8 to $15 per pound. Earlier, there had been an inside price reduction of $4 per pound which had purported to reflect the easier situation in berries, and the lower price continued in effect during the week past. Buyer interest was rather narrow in most quarters of the market, but there were some indications that selling gains were being made at some points.

Eucalyptus—Buyer interest was at a high level last week as improved stocks and prospects of steady replenishment helped to sponsor activity. The optimistic attitude throughout the trade was accelerated with the arrival of 101 drums of oil from Australia during the period under review, and all indications promised further sizable gains in the near future. Prices held firm during the week, and there were no variations of any kind, although it was said that some prices were easing slightly in view of the improved supply position.

Ginger—Prices for ginger oil were reduced 50c. per pound on the inside late the previous week, establishing a range from $10 to $14 per pound. Trading throughout the market was essentially limited to routine, and there was little indication in any quarter that there would be any important change in buyers' attitudes during the coming weeks.

Lavender—Quotations for pure Spanish spike lavender oil were reduced 20c. per pound on the inside late the previous week, establishing a range from $1.85 to $3.10 per pound. Stocks of all types of oil were reported to be good, with Bourbon oil displaying some recent gains, and both pure and technical Spanish spike oil being in particularly good supply. Buyer interest in all types was undiminished, and movement against all orders was well maintained. There were no imports recorded during the period under review, but it was generally assumed that there would be volume shipments at regular intervals during the next few months.

Lemongrass—The situation throughout the market was relatively unchanged last week as fairly large stocks were available in some quarters of the market, and buyer interest was generally well maintained. Imports of oil from the Caribbean area totaled four drums from Honduras,

For Late Market Developments, See Page 4

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while there were no imports noted from the Orient. Firm prices continued in force in the Indian market, but there was no reflection of that influence in the American market as prices held steady and without change. According to the Department of Commerce, the 1946 production of lemongrass oil in India was said to have been 1,232,000 pounds. Although it is considered too early for accurate forecasts, the report said, the 1947 output is currently estimated at about 1,120,000 pounds.

Lime—Stocks of all types of lime oils were plentiful in the United States, but there was a definite slackening of buyer interest from the high level of previous months, and the volume of trading was noticeably reduced. Still, it was reported that some interest had been demonstrated in both West Indian and Mexican oil following the earlier price reductions, and it was hoped that there might be an increase in inquiry in the next few weeks. Prices did not vary during the period under review, but were reported to be easing slightly. Imports during the week were limited to twenty cases from Jamaica.

Orange—Interest in all types of orange oil, both imported and domestic, was well maintained last week, and movement against all orders was regular. Italian oil, which had reentered the market during the previous week, moved quickly into consumer channels and prices were held firm although there were no variations reported. Prices for all types of oil were firm in view of the active nature of the market, and there were no changes noted during the week. Imports were confined to forty cases from Jamaica during the period under review.

Palmarosa—Activity in this section of the essential oil market was slight last week, and the overall market atmosphere was dull. Stocks continued to be extremely tight and buyers, unable to acquire any worthwhile stocks with any degree of regularity, were definitely disinterested. Prices were held firm by the acute shortage of material and there was little evidence that stocks would be developed within the next few months. Imports during the period under review were limited to six pots of oil from India.

Pimento Leaf—Stocks of oil available to American buyers were only reasonably good last week, but were adequate to meet the mild demand in a market which had been becoming progressively dull during recent weeks. Prices were barely held steady by the routine nature of the trading, and there were no price changes reported from any quarter during the period under review. It was reported that nine drums of oil had entered the United States during the week from Jamaica.

Sandalwood—In spite of the continued tightness of stocks in the American market last week, observers were able to note a more optimistic attitude throughout the trade, and it was expected by some dealers and consumers that the future held promise of important stock developments. All spot stocks offered were eagerly sought by multiple buyers, and moved rapidly into consumer channels. Prices were held firm by the combination of short supply and active interest, and there were no variations reported during the period under review. Imports during the week were limited to eight cases of oil from India.

Savin—Prices for savin oil were reduced 50c. per pound on the inside late during the previous week, establishing a range from $5.75 to $16 per pound. Earlier in the previous week one dealer had advanced his prices $1 per pound which had widened the range to $16 per pound. Buyer interest was variable, and there was no particularly large volume of trading announced from any quarter. There were no imports during the period under review.

Sweet Birch—Northern sweet birch oil was reduced 50c. per pound on the inside last week, with offerings ranging from $4.50 to $7.25 per pound. Southern oil did not vary during the period and was offered at prices ranging from $2.50 to $3.25 per pound. Stocks of both oils were showing slight improvement, but buyer interest was primarily routine, and there was little anticipation of volume demand developing for either oil.

Wormseed—Prices for wormseed oil were reduced 20c. per pound on the inside late the previous week, establishing a range from $5.35 to $5.55 per pound. Interest throughout the market was increasingly narrow, and stocks were reported to be more than adequate to meet demand. The reduction was the second during the previous week and marked the first downward price trend in this oil since prices rose sharply with the abandoning of price ceilings last year.

Ylang-Ylang—The downward progression of prices for all types of ylang-ylang oil continued last week with the announcement of a lower price for Bourbon oil. Prices for this oil were reduced $1.50 per pound on the inside, establishing a range from $15 to $24 per pound. There were no further variations in the prices for the other grades of oil during the period under review, but it was reported that all prices were easier. The entrance of Philippine oil into the American market in recent weeks had sponsored the downward price trend, and it was expected that further important stocks of oil would be available from that source in the next few months. Buying was generally confined to the stocks offered in the lower end of the price range, and was at a rapid pace. There were no imports during the period under review.

Aromatic Chemicals

Linalool—Prices for linalool were reduced 50c. per pound on the inside late the previous week, establishing a price range from $6.75 to $7.60 per pound. The derivative was in much better supply than earlier, and the reduction was directly attributable to the improved supply and lowered cost of bois de rose. Buyers were in the market for large quantities of material, and it was reported that pro-

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ducers were making good progress in developing stocks of the derivative.

Phenylethyl Alcohol—One dealer advanced prices for this material late the previous week, which widened the range of prices 80c. per pound on the outside, and established a range from $2.30 to $3.50 per pound. Buyer interest was well maintained last week, but producers were finding it difficult to supply more than a portion of the demand. Basic materials continued in a tight position, and there was little hope for relief within the next few months.

Safrol—Prices for this derivative advanced 30c. per pound on the outside late the previous week, establishing a range from $1.10 to $1.45 per pound. It was reported that all prices in the market were firming in view of the active buyer interest and the limited stocks available. Development of stocks of raw material was slow, and hope for quick relief was slight.

Trade Briefs

Ciakit Corporation has been formed in Brooklyn, N. Y., to deal in cosmetics.

British exports of perfumes and toilet preparations during the first ten months of 1946 advanced to 21,255,018 pounds from the 7,439,906 pounds in the similar period of 1945.

Alexandra de Markoff, manufacturer of perfumes, New York, has added to its staff Miss Doris Craven, who will be in charge of promotional activities and trained sales representatives. She formerly was with Charles of the Ritz and Elizabeth Arden.

Natural Essential oils imported into Britain in the first ten months of 1946 amounted to 3,639,274 pounds, compared with 1,915,635 pounds in the similar period of 1935. Imports of the synthetic oils in the period were 8,407 pounds, compared with 30 pounds in January-October, 1946.

Laboratory Sterilizers Sale Planned by WAA

OPD Washington Bureau

The War Assets Administration will offer unused surplus hospital and laboratory type sterilizers in a nationwide competitive bid sale from March 10 to April 7, it has been announced by Frank L. McNamee, Philadelphia WAA regional director.

Only a few of the sterilizers are available in the Philadelphia WAA region. Largest quantities are located in Louisville, Atlanta, Cincinnati, Denver and New York regions. Limited quantities are also available in Boston, Kansas City, San Francisco, Seattle, Richmond, New Orleans, Salt Lake City and Los Angeles regions.

Purchase lots will be fixed by holding regions which will also supply detailed information on request. Details also can be obtained at Philadelphia WAA headquarters, Room 515, Lafayette building.

Included in the offering are items ranging from small instrument sterilizers to large hospital type batteries that combine autoclaves, instrument sterilizers, utensil sterilizers and water sterilizers. Some operate from a direct steam supply while others are gas-fired, gasoline stove fired or electrically heated.

Citrus Export Firm Formed

OPD Washington Bureau

The Citrus Corporation of America has filed papers with the Federal Trade Commission under the export trade act for exporting citrus products and byproducts. The associations will maintain offices at 19 and 21 Dover Green, Dover, Del., and 424 Madison avenue, New York.

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Labor Relations

—Continued from page 7

separately to the walking and "preliminary activities" time or were the two to be lumped together and the rule then applied to the total? Here again, Judge Picard was most uncertain as to the supreme court's mandate thereon. Although he finds some reasons to consider walking time and "preliminary activities" time separately, he nevertheless rejects this separability theory and instead rules in favor of the accumulation and lumping together of the walking and "preliminary activities" time. As he succinctly states it, "we believe that, if x time is used in walking and y time in 'preliminary activities' either before or following the walking, they should be considered together even if standing apart they would be *de minimus*." He then observes that, in the instant case, it would not matter which of the two theories were to be applied.

Retroactive Application

Another problem concerned the matter of retroactivity. Here again the court alludes to the possibility that it might be held in error by the supreme court insofar as it held that walking time is not to be computed both ways, that is; morning, noon, and night and if so held, then this "pyramided walking time, being over twelve minutes would not be *de minimus*." It then goes on to say that, if that be the decision of the supreme court, then in all fairness to the defendant, the doctrine of retroactivity should be applied so as to limit his damages. In other words, if the liability is to be based on walking and "preliminary activities" time where the two are added together and where the walking time includes not only going to but also returning from lunch and then after work (a total time in the case of about twenty-five minutes), such new figure should be applied only "prospectively" and not retroactively. The court stresses the point that not only this defendant, but manufacturing industry in general, should be protected for past acts done in good faith.

Points Still in Question

What conclusion can we then derive from the Mt. Clemens case? The foremost one is that the portal-to-portal situation still remains most unsettled and ambiguous. If the Mt. Clemens decision points up anything at all, it is the dire need for further explanatory guidance by the supreme court and in particular, on the following points:—

1. Does walking time include walking during lunch and at the end of the day or is it limited only to walking time to work?

2. Is the "*de minimus* rule" to be applied to the total of walking and "preliminary activities" time or to each item separately?

3. What does "preliminary activities" time include? Does it include items of work which are voluntary to the employee or of mutual benefit to the employee and the employer?

4. What is the effect of custom and contract?

5. What is *de minimus*? Is it up to twelve minutes for all industrial plants or does it vary from case to case?

6. What about retroactivity? If the portal-to-portal claim is above *de minimus* and compensatory, has the district court authority to deny retroactive damages (subject to State time limitations) or can damages be limited only from the date of the supreme court's decision or the commencement of the action.

True, Judge Picard did try to answer some of these questions. However, his answers certainly cannot be taken with any degree of finality until the supreme court itself has spoken. This column can readily foresee some other district court judge ruling contrary to Judge Picard on one or more of the points in the case. Manifestly then, until Judge Picard's decision in the Mt. Clemens case is finally reviewed by the supreme court or a clarification of the latter's original decision is rendered, the portal-to-portal situation must remain in the same state of chaos and confusion as it was before Judge Picard's decision and as it is now. And in the interim, the portal-to-portal rights and liabilities of the employer and the employee continue as uncertain as ever.

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Petroleum Derivatives

A general survey of the petroleum derivatives market last week showed demand for most of the materials to be brisk and the call for the remaining few to be improving. Solvents and diluents were in heavy demand, especially rubber solvents. Fortunately, supplies were regarded as excellent and entirely capable of caring for practically all requests. Petrolatums and waxes evidenced brisk interest but were handicapped by the lack of large enough stocks and by the shortage of containers for shipping. The lighter fractions section of the market, which has been comparatively quiet since the beginning of the year, began to improve as readily available supplies helped to increase interest in the market.

The unusually heavy winter demand for gasoline continued unabated last week and showed no signs of letting up. At a time of the year when distributors were usually building up surplus stocks for the summer months, they were confronted with the task of attempting to acquire adequate stocks to cover their present needs. The shortage of tetraethyl lead for the production of high octane gasoline continued to be felt by all producers.

Price changes were held to a minimum last week with fluctuations in the quotations for heating oils comprising the only activity. Demand for kerosene and No. 2 heating oil continued high but surplus stocks due to the mild weather of early winter resulted in slight price reductions for these commodities.

Solvents and Diluents

Aromatic Naphthas—High-solvency aromatics continued to move in large volume as call from the protective coatings industry absorbed a considerable part of the total shipments. Demand for petroleum toluol and xylol was heavy. Supplies were fortunately large enough to care for the brisk demand. The firm market featured steady prices.

Cleaner's Naphtha—Demand for this material was not pressing last week as demand reached its routine position of ranging from moderate to good. Further interest in the market was expected to develop within the next few months. Supplies reached appreciable heights and no difficulty was reported in supplying customers with prompt shipments.

Lacquer Diluent—Consumer demand held up well for this commodity last week as interest in the market retained its fairly high level. Supplies were adequate enough to permit rapid filling of both spot and contract demand. Brisk trading resulted in a firm market and no price changes were reported.

Mineral Spirits—Last week's trading improved slightly over the routine trading of the previous week and fair interest in the market was reported. Liberal offerings were available as supplies reached heights more than ample to care for the present needs. Prices held firm and steady at previous levels.

Rubber Solvent—Interest in this market was at a fervent pitch as the rubber industry continued in its post-war boom. Although greater amounts of natural rubber are finding their way back into the market, heavy demand for synthetic rubber and consequently, rubber solvent, continued to be noted. The active market witnessed no price changes last week.

Market Trends

Prices Advanced

None

Prices Reduced

None

(For Current Prices see Page 9)

Markets at Other Centers

Chicago—Solvents and diluents continued strong and active, with consuming industries taking fairly good amounts of materials.

Aromatic Solvents—Tone good, market firm.

Cleaner's Naphtha—Business moderate, no price change.

Lacquer Diluent—Trade active, quotations steady.

Mineral Oils—Buying fair, no price change.

Rubber Solvents—Call brisk, market firm.

Stoddard Solvent—Good movement, steady quotations.

V. M. & P. Naphtha—Business good, prices changed.

Los Angeles—Demand for all petroleum specialties was good. Paint and varnish thinners moved in steady volume. Offerings were excellent.

Lighter Fractions

Butane—Brisk demand for this material created an active market last week as a large volume of trading was reported. Steady consumer demand which has been prevalent for many weeks showed a slight upward trend as large industrial users were in the market for greater supplies. Stocks were declared to be ample to meet the present demand, and shipments were stated to be prompt.

Heptane—Plentiful stocks in this section of the market made it possible to continue prompt shipments to all consumers. No diminishing of the good demand that has been steady for a number of weeks was noted as interest in the market was regarded as high. Call for both spot and contract stocks was adequately and promptly met. Prices remained steady and unchanged.

Hexane—Slight improvement in the demand for this material was noted last week with call being reported as moderate. Trading was brisk as an increased volume of supplies were moved. Large stocks helped to create greater interest in the market. No change in the price structure for hexane was reported.

Octane—Slow but steady improvement in this market during the past month continued last week. Interest in the market was slightly better as increased call for this material was noted. Ready availability of supplies made it possible to meet this demand with stocks to spare. Prices remained steady and unchanged.

Pentanes—The quiet market of previous weeks was materially unchanged although a slight improvement in consumer interest was reported. No backlog of orders was evident since stocks on hand were more than adequate enough to care for the present call. No price changes were reported during the period under review.

Markets at Other Centers

Chicago.—Orders continued fairly good and the general tone in this section of the petroleum market was good.

Butane—Orders good, market firm.

Octane—Business good, prices firm.

Pentanes—Buying good, market firm.

Propane—Business extensive, quotations holding.

Los Angeles—Liquefied petroleum gases continued in good demand. Supplies were adequate.

Petrolatums and Waxes

Microcrystalline Waxes—Although shipments and supply availability were reported to have improved to an extent, consumer interest and demand in the market continued high and could not be met with sufficient materials. The majority of shipments were made against contract demands and some spot stocks were cared for. Prices were firm and without change.

Paraffin—Good demand for these materials continued unabated as interest in the market retained its high pitch. Producers were striving to maintain prompt shipments with the materials available since present production fell short of the heavy call. Quotations remained firm.

Petrolatums—Trading was brisk last week as demand and interest in the market evidenced an upward trend. Stocks were in somewhat better supply but the inability to secure adequate numbers of shipping containers held down the actual volume of trading that could be accomplished. The price structure remained firm and unchanged.

Crude Oil Stocks

Stocks of domestic and foreign crude petroleum for the week ended February 15 totaled 222,013,000 barrels, according to the Bureau of Mines. Compared with the total of 220,313,000 barrels for the preceding week, this represents an increase of 1,700,000 barrels, comprising an increase of 2,015,000 barrels in stocks of domestic crude and a decrease of 315,000 barrels in stocks of foreign crude. Heavy crude-oil stocks in California, not included in the gasoline bearing stocks, totaled 5,632,000 barrels, an increase of 188,000 barrels.

For Late Market Developments, See Page 4

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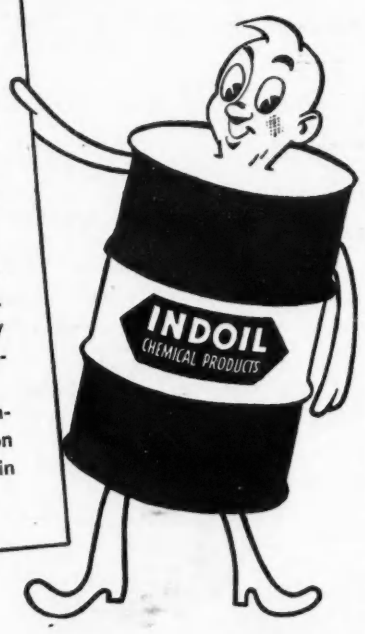

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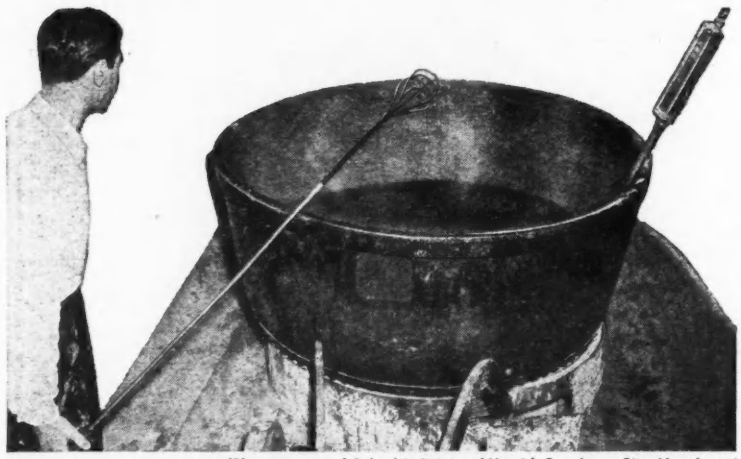

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Stearates

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Protective Coatings Materials

The opinion that prices had leveled off in the protective coatings market was exploded last week when numerous changes, both advances and reductions were reported. Chief reasons for the changes could possibly be attributed to three causes:—raw material costs, freight and shipping container increases and world markets. Demand for most of the materials retained its high level with but casein and turpentine continuing to experience buyer resistance and reduced call.

Leading the list of commodities advanced in price were lead and the lead oxides. Attempting to bring the domestic market in line with world markets, lead producers advanced their prices 1c. per pound. Although producers had expected some resistance to this increase, none was immediately noticed. Lead oxides immediately followed and were subject to their second advance since the beginning of the year. Lacquer materials were advanced ½c. to 1c. per pound for carlot and less carlot shipments in drums. Cadmium lithopone was also up.

The list of commodities reduced was headed by gum turpentine, which witnessed a 19c. per gallon decline on the Savannah market last week. Very slow demand and weak interest in the market were reported to have caused the price lowering. Better balance between supply and demand for the first time since the end of the war resulted in a ½c. per pound decreased in polystyrene prices. Technical grades of red mercury oxide were also reduced.

Market Trends

Prices Advanced

Cadmium lithopone, 20c. per lb.
Lead, 1c. per lb.
Litharge, 1c. per lb.
Orange mineral, 1c. per lb.
Red lead, dry, 1c. per lb.
White lead, dry, 1c. per lb.

Prices Reduced

Polystyrene, ½c. per lb.
Red mercury oxide, tech., 30c. per lb.
Turpentine, gum, 19c. per gal.
wood, steam-dist., dms., 15c. per gal.
tanks, 10c. per gal.
sulphate, 5c. to 10c. per gal.
Yellow mercury oxide, tech., 20c. per lb.

Comparative Price Indexes

(100=August 1, 1914)

Last week.	Prev. week.	Last month.	Last year.
173.2	172.0	172.0	140.2

(For Current Prices see Page 9)

Metallic Lead and Zinc

Lead—A new all-time high for lead prices was reached last week when producers advanced their prices 1c. per pound. Declaring that the advance was necessary to bring the domestic price in line with the prices being quoted in world markets, producers increased their prices to 14c. per pound in New York and between 13.80c. and 13.85c. per pound in St. Louis. This new price approximately equals the world market price when transportation charges and U. S. import duty are taken into consideration. No let-up in the demand for this material because of the higher prices was noted and excellent call continued. Production continued to run far short of demand although it was hoped that the new price might help to alleviate the scarce supply situation to some extent.

Zinc—The firm market and high prices of many previous weeks remained in effect last week with the market materially unchanged. Interest continued to be regarded as high with call described as good and expected to surpass last year's total. However, supply availability continued to lag and shipments were running behind schedule.

Unlike the lead market, prices remained firm and unchanged last week with the prime western grade being quoted at 11c. per pound in New York and 10.50c. per pound in East St. Louis.

Pigments

Litharge—Consumers continued to be in the market for large supplies of this lead oxide but were faced with an acute shortage situation as producers attempted to distribute what supplies were available to the horde of interested buyers. Announcement was made last week that prices would be advanced 1c. per pound due to the increase in lead prices. Shipments of five tons or more were being quoted at 16c. per pound in drums and shipments of less than that quantity were selling for 16½c. per pound.

Orange Mineral—Buyer interest and demand for this commodity remained high but materials were not in plentiful supply. Prices were advanced 1c. per pound last week to meet the lead advance. The new schedule of prices became:—20c. per pound for drums and 19½c. per pound for shipments of five tons or over.

Red Lead—No increase in supply availability was reported last week as demand continued excellent. Shipments were concentrated against previously placed orders. A price advance of 1c. per pound brought the price to 17c. per pound for five ton shipments and 17½c. per pound for drums.

White Lead—Similar to the other lead pigments, call for this material was heavy but supplies were very short. Prices were advanced 1c. per pound last week and became:—15¼c. per pound for twenty ton shipments and 15½c. per pound for 500 pound shipments.

Dry and Chemical Colors

Carbon Black—Materially unchanged from the previous week, demand for carbon black continued to run far in excess of the present production and a large backlog of orders existed. Dock-workers in England recently went out on strike after refusing to unload a cargo of carbon black from an American ship, declaring that the material was inadequately packed. Representations to American shippers for the secure packaging of these cargoes has been made.

Iron Oxide—The pressing demand for these earth colors continued to leave stocks at a low level. Call, which has been consistent for many months, absorbed stocks as readily as they became available. Imports have been reaching appreciable heights but were quickly diverted into consumer channels. Arrival of 2,331 bags of this commodity from England was reported last week.

Red Mercury Oxide — Technical grades of red mercury oxide followed the recent trend of quicksilver prices. A reduction of 30c. per pound was effected and brought the price for 1,000-pound lots in barrels to $2.30 per pound Less than 1,000-pound shipments were quoted at $2.32 per pound.

Sienna Earth—Lack of large enough imports last week forced a tight supply situation on this market. Moderate interest and demand quickly consumed available stocks with but ten barrels being received from Italy during the period under review.

Yellow—Technical grades of yellow mercury oxide were reduced approximately 20c. per pound last week, to bring it in line with the prevailing price of quicksilver. A price of $2.23 per pound was being quoted, for shipments of 1,000 pounds in barrels, with the price for smaller shipments becoming $2.25 per pound.

Driers and Flatteners

Naphthenates—Holding on to its firm position of many previous weeks, the market was regarded as very strong during the period under review. Keeping in line with the heavy demand for practically all paint materials, this section of the market witnessed excellent consumer interest with call declared to be equally as good. Producers were fortunate in obtaining adequate supplies of naphthenic acid and were therefore able to insure heavy naphthenate production. Shipments on spot and contract demand were promptly made. Prices were steady and unchanged at previous levels.

Resinates—Volume of trading was heavy in this section of the market as

For Late Market Developments, See Page 4

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interest in this drying material reached very high proportions. Producers declared that they were able to meet the good call for fused resinate stocks since production was heavy. The precipitated resinate situation was slightly different since the good demand resulted in a supply scarcity with shipments running over a month behind schedule. No price changes were reported during the period under review.

Stearates—The tight supply picture of the past six months was in full swing again last week. However, from some corners of the market it was reported that this supply availability was improving. Stearic acid and the other fatty acids remained the crux of the situation. Not until supplies of these basic raw materials become more readily available would stearate production increase. Demand retained its high level with movement of materials being concentrated against contract orders. The firm prices for this commodity remained unchanged.

Fillers and Extenders

Barytes—Favorable conditions in this market continued with movement of supplies reaching a high volume as production was declared to be in line with the steady demand being voiced. Interest was keen and shipments were stated to be prompt.

Chalk—Imports, although not steady, continued to show some improvement last week when a total of 400 bags of chalk were received in American ports from Belgium. Demand for this extender was declared to be moderate and improving.

Clay—Movement of this material was stated to be moderate as fair call was evidenced. The supply situation was appreciably improved last week when it was reported that 260 tons of blue clay and 469 tons of ball clay were received from England.

Fuller's Earth—Improvement in the call for this material continued to be reported and was stated to range from moderate to good. Imports which have been steadily increasing suffered a setback last week when only 100 bags were received from England.

Whiting—Retaining its healthy balance between supply and demand, this market continued to be the recipient of good demand as excellent interest prevailed in the market. Imports reached a high point last week when it was reported that a total of 6,800 bags of this extender were received in home ports from Belgium.

Lacquer Materials

Acetone—No change was witnessed in this section of the market last week and demand far exceeded production. Consumer interest retained its high pitch and call was declared to be excellent. Capacity production continued but the lack of increased production facilities prohibited producers from attaining the larger rate of production needed to fulfill the present demand. Less carlot shipments in drums were being quoted at 9½c. per pound in order to compensate for the increased cost of drums.

Dibutyl Phthalate—Shortages continued to plague this market and the situation was stated to be acute. Lack of butyl and other raw materials reduced production considerably and only small shipments of this material against contract orders were reported.

Ethyl Acetate—Demand for this material has reached such great heights that production was unable to completely cover all requests and a backlog of orders was reported. Production continued at its normal level but any increase was hampered by the shortage of acetic acid. Less carlot quantities in drums were ½c. per pound higher due to higher drum costs, with the 95-98% grade selling for 22c. per pound and the 99% grade quoted at 22¼c. per pound.

Ethyl Acetoacetate—Interest in the market was stated to be good and call was excellent. Producers were experiencing difficulty in supplying the demand as a result of lowered production due to the acetic acid shortage. Carlot and less carlot shipments in drums were advanced ½c. and 1c. per pound respectively because of the increased drum costs. Prices became 50½c. per pound for carlots and 51½c. per pound for less carlots.

Varnish Gums

Gums—Beset by many difficulties, the natural resin market continued to fight its way back to pre-war standards, and although progress was slow, gradual improvement could be noted. Chief difficulties at the present time were the high prices being quoted and the shortage of supplies. Lack of surplus stocks has resulted in the loss of keen competition and the consequent high range of prices. It has been announced that Madagascar has increased the seven percent ad valorem export duty to 10 percent for gum copal and other natural resins. Imports for the past week amounted to a total of 375 bags of yacca gum from South Africa.

Shellac—The stevedore strike in Calcutta continued to hold up shipments of shellac and very little movement was reported. The few ships in the Calcutta harbor were unable to be loaded because of the strike and it was reported that other ships were by-passing the port which resulted in few supplies leaving the country. Some sailings were reported to be already two months behind schedule. The market was stated to be firm although a slight price advance in Calcutta was reported. Supplies here were expected to be adequate enough to care for the immediate demand but fear of a tight supply situation before the Bysacki crop came in was voiced in trade circles. Although increased rumors that the Bysacki crop would be small continued to be heard, it was felt that if good weather continued in India, a sizable crop would be harvested in the Spring.

Glues and Binders

Glue—Bone and animal glue continue to be in heavy demand as the paint industry sought large amounts for the production of interior glue-bound cold-water paints. Heavy demand for these paints was expected this year. Glue supplies continued to run behind demand although some improvement in the situation has been noted since the beginning of the year.

Casein—No change in the casein market during the past week was noted. A quiet and very easy market was reported with few buyers seeking the readily available supplies. Domestic production was high and stocks were piling up in producers' faces. The same story was heard last week as dealers attempted to rid themselves of the high priced stocks that were

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purchased up till a few months ago. Practically everyone was attempting to deplete their inventories but were having difficulty in obtaining buyers.

Argentine prices remained at 39c. per pound in Buenos Aires but there were no imports reported last week although there probably were some afloat. Domestic prices ranged anywhere from 35c. to 39c. per pound with few buyers.

Naval Stores

Rosin—The firm market with its high prices remained unchanged last week as supplies became shorter. Domestic call retained its very quiet attitude with very little movement being reported. Dealers were attempting to finish the season with the materials on hand, even though they were small in most cases. Export demand for rosin was good with many inquiries reported but here again, movement of materials was small since few supplies were available for export. Dealers and consumers were patiently awaiting the harvesting of the Spring crop.

Savannah, Feb. 27.—Following is a record of the rosin market for the week:—

	Price per unit—Low of range quoted				
	Fri.	Mon.	Tues.	Wed.	Thurs.
B	$8.25	$8.25	$8.25	$8.25	$8.25
D	8.60	8.60	8.60	8.60	8.60
E	8.90	8.90	8.90	8.90	8.90
F	9.65	9.65	9.65	9.65	9.65
G	9.65	9.65	9.65	9.65	9.65
H	9.65	9.65	9.65	9.65	9.65
I	9.65	9.65	9.65	9.65	9.65
K	9.65	9.65	9.65	9.65	9.65
M	9.65	9.65	9.65	9.65	9.65
N	9.65	9.65	9.65	9.65	9.65
WG	9.65	9.65	9.65	9.65	9.65
WW	9.65	9.65	9.65	9.65	9.65
X	9.65	9.65	9.65	9.65	9.65
	Drums				
Sales	...	...	...	...	...
Receipts	1,402	...	119	2,268	206
Shipments	2,629	50	...	2,224	...
Stocks	5,176	5,126	5,245	5,289	5,495

Turpentine—Buyer resistance finally won out over the high prices of gum turpentine since decontrol. Last week saw a revolutionary change in the market as gum prices dropped 19c. per gallon with the new price of $1 per gallon being 5c. per gallon lower than the price set by the OPA on September 6, 1946. First reports indicate that the very small call for gum turpentine and the fear of substitutes eating into the market because of high prices caused the decline. Dealers have long considered the price too high and welcomed the recent decline, stating that it would create interest in the market and tend to promote the use of turpentine instead of substitutes in the heavy painting season which lies just ahead. How long the price will remain at $1 per gallon no one seemed to know, but it was hoped that it would level off close to the present quotation if not somewhat lower. Estimates of the new crop which commences to be brought in April 1, was that it would not be very much larger than last year and would probably represent a five to seven and one-half percent increase. Present supplies remained very tight.

Savannah, Feb. 27.—Following is a record of the turpentine market for the week:—

	Bulk gallons— Cents.	Sales.	Barrels— Receipts.	Shipments.	On hand.
Friday	$1.19	...	44	428	1,490
Monday	1.05	280	745	699	1,536
Tuesday	1.00	240	164	...	1,700
Wednesday.	1.00	320	27	81	1,646
Thursday..	1.00	...	...	11	1,635

L.A. Paint Technicians Study Primer Surfaces

Herbert L. Wampner, technical sales director of the Pacific Coast division of the Reichhold Chemicals Inc., was principal speaker at the February meeting of the Los Angeles Paint and Varnish Production Club. His subject was "Industrial Primer Surfacers."

Mr. Wampner brought out the close comparison between specific hardness and sanding properties in each pigment, and the fact that each vehicle used in formulating primer surfacers requires a different pigment combination and volume for optimum performance in build, sanding, water resistance and holdout. He stated that alkyd and modified phenolic vehicles gave the best results.

At the business session of the meeting it was announced that the spring frolic will be held at the Englewood Country Club on April 12.

Smith Observes 25 Years With Devoe & Raynolds

Devoe & Raynolds Company, paint manufacturers, New York, last week paid tribute to Renshaw Smith jr., secretary and general trade sales manager, on the occasion of his twenty-fifth anniversary with the firm. At a dinner in the Claridge hotel, Atlantic City, N. J., principal speakers were Elliot S. Phillips, president and William H. Mathews, vice-president.

Barite Tax Depletion Asked

OPD Washington Bureau

Representative Bertram Gearhart of California has introduced a bill (H. R. 2168) in the house to provide percentage depletion allowances for barite for taxation purposes. The allowances would be granted for taxable years beginning after December 31, 1946.

Trade Briefs

Southern Research Institute has added to its staff Glenn P. Wheeler, formerly associated with the B. F. Goodrich Company, Akron, Ohio.

Ernest T. Trigg, president of the National Paint, Varnish & Lacquer Association, will address the Golden Gate Club in the Palace hotel, San Francisco, March 7.

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M.W.	204.7	232.8
B.P. at 2mm	113-9°C	145-50°C
M.P.	-14.3°C	0.0°C
D^{20}_4	0.8660	0.8623
$N^{20}D$	1.4445	1.4472
Acetyl Value	nil	nil
Color	water white	water white

Available in experimental and development quantities.

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AHCO PRODUCTS

METHYL "CELLOSOLVE"* STEARATE

METHYL "CELLOSOLVE" STEARATE, a synthetic ester, is used as a plasticizer for cellulose derivative, paper coatings and wax finishes. The following data may suggest other uses.

Chemical formula	$C_{17}H_{35}COOCH_2CH_2OCH_3$
Molecular weight	342
Color (platinum cobalt scale)	175
Melting point	22° to 24°C
Flash point	378°F
Acidity	less than .6 mg. KOH per gram ester
Specific gravity	.888 at 25°/25°C
Iodine value	2 max.

Low volatility

* Trade mark of C&CC.

BUTYL STEARATE

BUTYL STEARATE, a synthetic ester, is used as a plasticizer for cellulose and polyvinyl derivatives, also for cosmetics, paper coatings and wax finishes. The following data may suggest other uses.

Chemical formula	$C_{17}H_{35}COOC_4H_9$
Molecular weight	341
Color (platinum cobalt scale)	130
Melting point	19° to 20°C
Flash point	358°F
Acidity	less than .6 mg. KOH per gram ester
Saponication number, 171-179 mg. KOH per gram ester	
Specific gravity	.85-.86 at 20°/20°C
Iodine value	2 max.

Low volatility

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Officials at Pitts. Glass New Plant

Dr. George M. Buffett (left) has been appointed technical director of the Pittsburgh Plate Glass Company's new paint plant at Springdale, Pa., and Wallace E. Shepard jr. has been named manager of industrial sales. Dr. Buffett has been associated with the firm's paint division at its Milwaukee plant for the past nineteen years, while Mr. Shepard has been an industrial paint sales representative since 1931.

Paint Evaluation

—Continued from page 5

bility, and special abrasion as in the case of wheels.

The usual saltwater spray apparatus is used. Exposures to sun and dew run up to four months. Humidity is applied by immersion in distilled water at 105° F. All tests must recognize the particular role of primer, surfacing coat, and finish. In large part, the testing is the same as that described for industrial finishes, with reference to elasticity or flexibility and impact tests. Heat and dry ice give testing ranges of temperature. The Macbeth lamp is used in color testing. Color standards suffer through deterioration. Gloss is largely determined by eye. Weathering goes on for as much as a year.

It has been found that synthetic enamels require prolonged ageing. More attention is necessary for chassis finishes to combat corrosion. The use of tomato, lemon, and 50-percent alcohol in testing refrigerator finishes was mentioned. The special alkali tests needed on washing-machines were noted. It was declared that no test or series of tests is wholly satisfactory in itself. Interpretation plays a very large part.

Container Finishes

Toxicity and taste are important subjects in the testing of internal finishes for metal containers in the food and drink field, said John H. McKenzie, of the American Can Company. It is important in all container finishes that they do not soften or loosen. Their chemical reactivity must not be adverse to their purpose. They must bake quickly and thinly and must resist the thermal processing of contents. Flexibility is highly desirable, along with continuity of film, and adhesion, because of the stress put upon a metal sheet in the forming of a can or other container.

External coatings for containers must have thermal resistance and must be resistant to sunlight and atmospheric influences. The solvents in these must not affect the glue-glycerin rollers by which they are applied. They must have proper flow, as well as the properties noted for internal coatings and hardness. They must not be tacky.

Tackiness is determined by means of a sheet of tissue paper squeezed between two coated plates. The test for adhesion is how it strips off under a piece of scotch tape rapidly pulled off. Only actual packing can test behavior under thermal processing. Experts must pass on taste and odor. Health hazards must be thoroughly determined by physiologic tests. Fumes from spices can play havoc with many otherwise satisfactory internal coatings.

Marine Finishes

An antifouling paint has the unique desirability of wasting away slowly in order that its properties may be exerted. Its pigment must be toxic rather than hiding. These points were brought out by Allen L. Alexander, of the Office of Naval Research. Immersion tests must be located with regard for seasons in respect of barnacles and other growths. So, the navy uses one in Florida, and two in the West Indies. Tests cover corrosion as well as fouling resistance. A special report form has been devised, as the reporting of data is often unsatisfactory.

Leaching rate is the prime quality in antifouling paint. This is best ascertained by laboratory tests. Sandblasted glass panels are used, the measurement is on the basis of the copper dissolved in the seawater bubbled over the cuprous oxide coating. Anything less than 10 milligrams per 1.000 square centimeters a day is not satisfactory. In testing some plastic paints, it is necessary to get rid of paraffin coating which delays leaching for a time. The rate is largely determined by the matrix in the coating, vinylite and some cold plastics being best. A water-sensitive extender helps by facilitating permeation of the pigment content.

Particle Sizing

Application of gas adsorption to the measurement of particle size was described by E. N. Harvey, jr., of the Interchemical Corporation. The importance of particle size as an influence on paint properties was said to be great; so it is desirable to know and get the optimum size, which is neither the largest fitted to practical handling nor the smallest obtainable.

The adsorption measurements were made with butane and nitrogen. Vapor pressure was an important factor in respect of accuracy. Many experimental data were given in comparison with micrographic and electronic-micrographic measurements. The correlation was not particularly close. Interpretative treatment appeared to play a large part, with the help of detailed analyses.

Thirty materials, mostly dry colors, were reported on. Only a few, it was said, showed unreasonable results. The method of conversion of adsorption to surface area depends on the gas used, nitrogen being preferable for practical application. The type of surface is also an influence. The problem of fully satisfactory agreement appears to be an isothermic one.

Viscosity Measurement

Two contributions were made on the measurement of viscosity. Maynard Euverard, of the Interchemical Corporation, described an inclined-tube viscometer, which introduces a new basis of measurement. Study of this apparatus will be taken up in committee D-1.

A stroboscopic timer for the Stormer viscometer was described by E. P. Peterson and Joseph Prane, of the National Lead Company. The advantages of this sort of timing were well presented.

Various angles of the collecting, reporting, interpreting, and applying of statistical data were covered by A. E. R. Westman, of the Ontario Research Foundation; E. J. Stearns, of the Calco Chemical Division, American Cyanamid Company; Roy Hill; George S. Cook, of the Army Engineer Board; and William E. Mayer, of the National Lead Company. The significance and usefulness of the proper use of statistics were clearly demonstrated.

Sherwin-Williams Names Michaels Pacific Head

W. O. Michaels has been named general superintendent of all Pacific Coast manufacturing and technical operations of the Sherwin-Williams Company, paint manufacturer, Cleveland, succeeding G. G. Hohmann, who recently resigned. The company also has named James A. Bradley general superintendent of the Los Angeles plant.

Mr. Michaels joined the company in 1924 at the Chicago plant and the following year was transferred to the technical service department. He was named superintendent of the Los Angeles plant in 1944. Mr. Bradley started with the Acme White Lead & Color Works, a Sherwin-Williams subsidiary, in 1910. Since 1941 he has been in charge of technical service operations, purchasing and raw material control at the Los Angeles plant. He was assistant superintendent there until his present appointment.

Interchemical Elects Esposito Vice-President

J. R. Esposito has been elected a vice-president of Interchemical Corporation. J. G. Morris, formerly executive vice-president of the finishes division of Interchemical, succeeds Mr. Esposito as president of that division.

Mr. Esposito began his career with the Ault & Wiborg Corporation which became a subsidiary of Interchemical and later was consolidated with the Murphy Varnish Company to form the Interchemical finishes division. He has been president of this division and the former Ault & Wiborg Corporation since January, 1931.

Devoe & Raynolds Gross Sales Up 25%

Gross sales for the Devoe & Raynolds Company in 1946 were $34,096,766, an increase of 25 percent over 1945, according to the report to stockholders by E. S. Phillips, president, just issued. Net profit before taxes amounted to $3,274,322, a gain of 56 percent; after taxes it was $1,874,322, representing $3.50 per share on Class A stock, and $1.75 on Class B stock. All divisions contributed to the record showing. These are:—Beckwith-Chandler Company, Newark, N. J.; Truscon Laboratories, Detroit, Mich.; Wadsworth, Howland & Co., Malden, Mass.; Peaslee-Gaulbert Paint and Varnish Company, and Jones-Dabney Co., Louisville, Ky.

Mr. Phillips' report traced the company's sales growth from $14,263,473 gross in 1940, and declared the production facilities are adequate to continue the company's expansion and development program when the raw materials situation is bettered. Research, new products and active merchandising are emphasized in the future plans. Devoe now employs 2,650 people, with 295 in the 10-year service club; 241 in the 20-year club; 12 in the 40-year club and 4 in the 50-year club.

Hercules Casein Output Up to Prewar Figure

The Hercules Powder Company, Wilmington, Del., reports that its dairy products division is in full production of casein for the first time since the war. Dairy products sales offices are located in Chicago, San Francisco, Kalamazoo, Mich., Holyoke, Mass., Milwaukee and Wilmington.

Trade Briefs

India Paint & Lacquer Company, Los Angeles, will construct a new factory building in that city.

American Plastics Corporation, Bainbridge, N. Y., has appointed Hubert L. Williams assistant to the president and general manager.

Paint wholesalers and manufacturers' representatives in Washington, D.C., are planning a training course for paint salesmen and decorators.

D. C. Highey, sales representative in Utah and southern Idaho for the National Lead Company, Pacific Coast branch, has been presented with a wristwatch commeroating the completion of his twenty-fifth year in the service of the company.

Paisley Products Inc., Chicago, has published a folder describing the "Lignotite" brand of casein glues for wood joining operations. Copies may be obtained by addressing the company at 1770 Canalport avenue, Chicago 16, or at 630 West Fifty-first street, New York 19.

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HERE'S A Glyptal alkyd resin that is specially designed for air-dry automotive refinishing primers and enamels. 2527 Glyptal offers a combination of drying speed, gloss, weather resistance and water resistance. It hardens well overnight and its firm dry is print-free. Resistance to oil and gasoline is excellent.

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A G-E specialist is always available to discuss your paint problems. Just write to Section RIMA-372, Resin and Insulation Materials Division, Chemical Department, General Electric Company, Schenectady 5, New York.

Properties of 2527 Glyptal

Solids content	49–51%
Solvent, 5% Xylol and Petroleum Spirits	
Viscosity	Z–Z2
Color (Hellige)	2–4
Acid No. of solution	5–7
Pounds per gallon	7.6
Aliphatic solvent tolerance	Excellent
Pigment compatibility	Very Good
Air-dry—setting time	Medium
Hardness	Good
Flexibility	Excellent
Gloss	Excellent
Gloss retention	Excellent
Water resistance	Excellent
Oil and gasoline resistance	Excellent
Weather resistance	Excellent
Specific gravity (resin)	1.12
Phthalic anhydride (resin)	35%
Rosin or derivatives	None
Phenolic content	None
Oil acids content (Resin)	45%

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CD46-G18

If you cannot get all the Glyptal alkyd resins you want, you will be pleased to know that G. E.'s manufacturing facilities are now being expanded to bring production into step with demand.

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Synco 130 CL—cold set
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Waterproof, contact pressure resins. High strength. Freedom from color, odor, taste, toxicity; of interest to the plywood, marine, furniture and general laminating industries.

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Low viscosity, rapid curing, odorless, tasteless, non-toxic; in white and colors. Suitable for containers, toys, decorative and industrial applications.

Coating

Syncoat 217—air drying; varnish and wood sealer
Syncoat 225—air drying; flexible for paper and fabrics
Syncoat 235—air drying; highly flexible for paper, textiles and leather

Water, grease, and chemical resistant coatings. Industrial applications include: tank linings (metal, concrete, wood, brick, etc.), equipment protection, scuff-proof containers. Free from oils and natural gums and resins.

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For adhesives, binders and the treatment of textiles, leather, and paper. Available in low, medium, and high molecular weights, and in any pH range from 4.0 to 10.0.

Samples available upon request to our Research Laboratory, 420 Boston Post Road, Larchmont, New York.

Obituaries

—Continued from page 4

Abbott Laboratories Export Corporation. He is a former president of the American Pharmaceutical Manufacturers' Association.

Alfred F. Lichtenstein

Alfred F. Lichtenstein, president and treasurer of the Ciba Company, manufacturer of dyestuffs, New York, from 1921 until his retirement last year, died of a heart attack February 24. He was seventy years old.

A native of Brooklyn, Mr. Lichtenstein graduated from Brooklyn Polytechnic Institute in 1896. Shortly thereafter he entered the chemical industry as an importer and exporter. He was a salesman for Geisenheimer & Co. from 1905 until 1908, and a partner in that firm from 1908 until 1917. He was elected president and treasurer of Aniline Dye & Chemicals Corporation in 1918, a post he held until he took a similar position with Ciba Company when it was organized in 1921.

Dr. Ludwig Schaefer

Dr. Ludwig Schaefer, chairman of the board of the Maywood Chemical Works, Maywood, N. J., died at his home in Paramus, N. J., February 22. He was sixty-three years old. A native of Germany, Dr. Schaefer graduated from Columbia University in 1906 and then joined the Maywood company, which was founded by his father, Dr. Louis Schaefer.

Horace A. Shonle

Horace A. Shonle, director of the organic chemical research section for Eli Lilly & Co., manufacturer of pharmaceuticals, Indianapolis, died in that city February 24 after a week's illness. He was fifty-seven years old.

Mr. Shonle joined Eli Lilly following service with the Chemical Warfare Service in World War I. He is credited with the discovery of amytal and seconal, and during the recent war was an authority on barbiturates. He worked with the Office of Scientific Research on development of penicillin, anti-malarials and tropical medicines.

Dr. Samuel A. Tucker

Dr. Samuel A. Tucker, former professor of electrochemistry at Columbia University, and chemical adviser to the War Industries Board in the first World War, died at his home in New York January 23. He was seventy-seven years old. Following World War I Dr. Tucker was chief chemist for Chemical Foundation, Inc., to which the government turned over properties held by the Alien Property Custodian. Before his retirement he was curator of the Chandler Chemical Museum at Columbia.

Carlos W. Van Law

Carlos W. Van Law, mining engineer with the Vanadium Corporation, New York, died in Pelham, N. Y., February 26. He was seventy-two years old. Mr. Van Law had been with Vanadium four years.

A native of Ohio, Mr. Van Law was vice-president in charge of exploration for the United States Refining & Mining Company, Boston, from 1913 to 1918. In 1922 he became consulting engineer for the Sinclair Consolidated Oil Corporation and three years later was placed in charge of South American operations for the American Smelting & Refining Company.

Alois Von Isakovics

Alois von Isakovics, son of the founder, and vice-president of Synfleur Scientific Laboratories, aromatic materials and essential oils, Monticello, N. Y., died there February 24 after an appendectomy. He was forty years old.

Frederick W. Werner

Frederick W. Werner, purchasing agent for L. Sonneborn Sons, Inc., white mineral oils and petrolatums, New York, died at his home in Glendale, L. I., February 20, after a long illness. He was fifty-eight years old. Mr. Werner had been associated with the company for thirty-four years.

Clarence A. Clough, formerly secretary and general manager of the New York & Pennsylvania Company, and secretary and manager of the Castanea Paper Company, died in Englewood, N. J., February 24. He was sixty-four years old.

James R. Haden, manager of the merchandising department of the Richfield Oil Corporation, New York, died at his home in Rockville Center, Long Island, February 25. He was fifty-seven years old.

Bayless W. Haynes, former president of the National Fertilizer Association, and president and chairman of the board of the Wilson & Toomer Fertilizer Company, Jacksonville, Fla., died recently.

Louis D. Huntoon, consulting mining engineer with offices in New York, and former professor of mining and metallurgy at the Sheffield Scientific School, Yale University, died of a cerebral hemorrhage at his home in Pleasantville, N. Y., February 22. He was seventy-eight years old. Mr. Huntoon is a former secretary and treasurer of the Mining and Metallurgical Society of America.

Walter P. Cutler, retired vice-president of the Atlantic Refining Company, Philadelphia, died at his home in Melrose Park, Pa., February 24. He was eighty-nine years old.

Joseph A. Keating, manager of the New York office of Wilputte Coke Oven Corporation, with which he had been associated for twenty-five years, died at his home in Rahway, N. J., February 24. He was fifty-two years old.

Robert W. Stewart, former chairman of the board of the Standard Oil Company of Indiana, died in Miami Beach, Fla., February 24. He was eighty years old.

Waldemar Vernet, vice-president and general manager of the Vita-Ray division of Affiliated Products, Inc., cosmetic products affiliate of American Home Products Corporation, New York, died in Fort Lauderdale, Fla., February 21. He was forty-nine years old.

COLTON GRANULATOR

No. 3 Rotary Wet Granulator

Produces an unusually firm quality of granulation. Dissembled for cleaning by removing two set screws. Granulates approximately 600 pounds of sugar or similar material per hour.

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(when available)
Dirty Solvent Recovered

Oils, Fats and Waxes

New high prices were again registered in corn, cottonseed, peanut and soybean oils last week. Market was strong under active demand and scarcity of offerings. Trading was restricted to scattered sales, with bids at the high levels for additional quantities not interesting sellers. Grain and lard also reached record levels and stimulated bullish sentiment in the oils and fats market. Coconut oil was firmer and advanced fractionally. Tallow and grease were stronger, and reflected the firmness in competing fats and hogs. Production was sold ahead and while large buyers were reported bidding at current prices, sales of less than carlots were transacted at premiums.

Tung oil offers for shipment from China were scarce and sharply higher. This was reflected for prompt and nearby deliveries and prices were advanced. New crop oiticica oil was in good demand with producers in Brazil not offering. Linseed oil was quiet and nominal. Recent sale of 40,000 tons by the government to crushers was reported disposed of to consumers. Replacement linseed oil was advanced fractionally last week by a producer.

Sharp increase in the export demand for oilmeals absorbed considerable tonnage of accumulated stocks of cottonseed, peanut and soybean meals and stiffened the market. Prices were higher for all positions.

Trading in cottonseed and soybean oils future contracts on the New York Produce Exchange will be open on all Saturdays, beginning March 1, it was announced by the Board of Managers.

Market Trends

Prices Advanced

Carnauba wax, 2c. to 10c. per lb.
Coconut oil, 1c. per lb.
Corn oil, 2c. per lb.
Cottonseed meal, $2.50 per ton.
  oil, crude, 2c. per lb.
  oil, refined, 3c. per lb.
Linseed oil replacement, ⅝c. per lb.
Lard, 2c. per lb.
Peanut meal, $2.50 per ton.
  oil, 1c. per lb.
Soybean meal, $2.50 per ton.
  oil, crude, 1½c. per lb.
  oil, ref., alkali, 1½c. per lb.
  oil, ref., clarified, 1½c. per lb.
  oil, ref., edible, 2½c. per lb.

Prices Reduced

None

Comparative Price Indexes

(100=August 1, 1914)

Last week.	Prev. week.	Last month.	Last year.
311.3	305.0	293.7	193.3

(For Current Prices see Page 9)

Cottonseed Oil

New high levels were again registered for crude cottonseed oil, sales going through at 35c. per pound, tankcars, f.o.b. mills. This was an increase of 2c. per pound for the week. Offerings continued light and trading was confined to scattered sales.

Bleachable summer cottonseed oil was firmer and options advanced from ¾c. to 1½c. per pound. Trading was limited to new crop months, as offerings for nearby were nil. May oil was 36¼c. bid with no sellers.

Purchases of colored oleomargarin were reported at 3,864,000 pounds at prices ranging from 29c. to 29.90c. per pound, according to packing by the Department of Agriculture, February 6.

Prices of refined bleachable prime summer yellow cottonseed oil in tankcars on the N. Y. Produce Exchange for the week ended Thursday, February 27, follow:—

	Sales	Cents per pound—High	Low	Close
March	..	..	..	35¼ bid
May	..	..	..	36¼ bid
July	..	..	..	35½ bid
September	5	31.05	30½	31.05S
October	11	29.08	28¼	29@29¼
December	15	27	26.45	26.40@26¾
January	..	..	..	25¼@26½

Total sales, 31 contracts.

Crude oil was sold and bid at 35c. per pound, tankcars, mills, in all sections of the South.

Memphis.—Scattered sales of crude cottonseed oil made at 35c. per pound, tankcars in the Valley. Cottonseed meal firmer and held at $65 per ton. Export and domestic demand for meal improved. Limited offers of cottonseed hulls quoted at $12.50 per ton, bulk and $18 sacked.

Linseed Oil

Consumers continued to show active inquiry for requirements during the second quarter. Trading, however, was quiet as crushers were not offering. Recent purchase of 40,000 tons of Argentine oil by crushers from the government was reported sold to consumers on the basis of 38c. per pound, tankcars, subject to arrival. Quotations were merely nominal at 38c. to 38.6c. per pound, tankcars, as to seller.

Replacement linseed oil was advanced 3/5c. per pound in one quarter. Tankcars were quoted at 34.60 per pound and drums, carlots at 35.60c. per pound.

Some 1,660 tons of Argentine oil arrived at New York last week consigned for the account of CCC, and will no doubt be delivered to crushers for distribution to consumers.

Flaxseed market was stronger and cash flaxseed was boosted to $8 per bushel in the Midwest, an all-time high level.

Minneapolis.—Buyers continued to inquire for linseed oil, but crushers had nothing for sale. The acceptance and sale of the 40,000-ton import of linseed oil last week took some of the edge off the market, but many buyers were still inquiring for oil to be delivered in the late Spring and early Summer months. Production continued at an estimated 35 percent of capacity with mills expected to cut operations quite sharply during the first week in March and predictions were that operations would be around 15 to 20 percent of capacity by mid-March.

Shipments of linseed oil, in pounds, were as follows:—

	1946-47	1945-46
This week	4,980,000	5,220,000
Since Sept. 1	137,600,000	161,554,000

Flaxseed — Cash seed reached the record price of $8.00 per bushel, in the Midwest.

Minneapolis.—The startling news of the week was the spectacular advance in the cash flaxseed price to $8.00 per bushel—an all-time high brought on by anxiety among a few buyers for limited amounts of flaxseed. Rank and file of the trade reported a steady volume of cancellations against to arrive orders and most of the crushers were selling—back to the country—more seed than they were receiving or buying. As the week ended only a scattering of cars were available and those buyers in acute need of flaxseed were willing to pay practically any price to obtain supplies. In the country demand for seed flax reached abnormal proportions and prices were rising steadily as stocks were virtually nonexistent. In the terminal market, where rather liberal seed supplies were on hand only a few weeks ago, it was reported that there was little or nothing for sale. The cash market, as the week ended, was a highly unpredictable affair and prices were based on car to car dealings, little or nothing available in the spot market and to arrive bids being made at the $8.00 level.

Bushels—	Receipts— 1946-47	1945-46	Shipments— 1946-47	1945-46
This week	37,400	93,000	51,000	67,500
Since Sept. 1	10,625,700	16,983,500	4,655,000	3,151,000

Other Vegetable Oils

Castor, Dehydrated — Market was firm at recent advances. Demand was active, with suppliers restricting sales to less than carlots. Inquiry continued keen. Bodied oil ranged from 39c. to 41½c. per pound, tankcars and unbodied at 37½c. to 40c. per pound, tankcars, depending upon seller.

Coconut—This market was stronger and crude oil was advanced to 21c. per pound, tankcars f.o.b. Pacific coast, April-June shipment and to 22c., New York basis. Offers were scarce and well held. Inquiry improved for copra and the market was firm, with offers light. Bids were reported at $215 per short ton, f.o.b. Pacific coast and $221 Atlantic ports.

Corn—Crude oil was higher with sales of crude reported at 34c. per pound, tankcars, f.o.b. mills for March shipment. Market was strong and offers scarce. Refined oil was advanced to 38½c. per pound, tankcars, same basis.

Oiticica — Business continued quiet. Buying interest was active for new crop oil, but offers from Brazil were unavailable. Stocks on the spot were scarce and the market was merely nominal. Arrivals totaled 600 drums

For Late Market Developments, See Page 4

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at New York last week and were delivered on previous contracts.

Olive—Consuming inquiry continued slow. Stocks on the spot were light, but more than adequate to cover the current demand. Drums were quoted nominally at $7 per gallon, duty paid, on the spot and probably could be shaded for fair sized quantities.

Peanut — Prices advanced 1c. per pound and sales of crude oil were made at 34c. per pound, tankcars, f.o.b. and bids were in the market at this price for additional quantities. Offers were scarce. Crushers were operating at capacity and there is every indication that heavy production will continue during the next few months.

Soybean—Demand for crude oil was active and unsatisfied. Bids of 30c. per pound, tankcars, mills, were reported for up to next July. Light sales were reported at 30½c. for March and at 30c. for April-June shipment, an advance of 1½c. for March and 2½c. for nearby. Winterized oil was higher at 34½c. to 35c. per pound tankcars, mills. Alkali refined was advanced 1½c. per pound to 32.83c. per pound, tankcars and clarified to 31.13c. per pound, tankcars.

Farm price of 1947 crop soybeans, grading U. S. No. 2 and containing 14 percent moisture will be supported at $2.04 per bushel for green and yellow and $1.84 for brown, black and mixed varieties, by the Department of Agriculture.

Tung—Higher prices for shipment from China continued to restrict trading last week. Market was strong. Prices were entirely nominal at 38c. to 38½c. per pound, tankcars and at 39c. to 40c. per pound, drums carlots, depending upon seller and delivery. Arrivals were heavy last week and totaled 5,233 tons and 910 drums, the bulk of which was delivered against contracts.

Los Angeles. — Prices of chinawood, peanut, sesame seed and soybean oils were increased last week. Heavy demand for all oils continues to be reported. Quotations for tankcars follow:—Chinawood—37c. per pound; coconut, crude—20c. per pound; mustardseed—20c. per pound; peanut, crude—34c. per pound; sesame seed, crude—35c. per pound; soybean—30c. per pound; castor, prime cold pressed—36c. per pound, drums included.

Chicago. — Vegetable oils market is strong. Offerings scarce and well held. Coconut oil, crude, tankcars, 21c. per pound; corn oil, crude, Decatur, 34c. per pound, refined, edible oil, 38c. per pound, drums, carlots; peanut oil, crude, tankcar, South, 34c. per pound; soybean oil, crude, tanks, Decatur, 30c. per pound.

Fats and Greases

Greases—Lack of offerings restricted trading, though consuming inquiry was quite active. Production was sold well ahead. Small lot trading in drums was reported at premiums. Market was strong and reflected the advance in competing fats.

Lard—This market was firmer with hogs, which reached new high prices. Demand for lard was active, and with offers scarce cash lard was advanced to 31c. per pound, bid Chicago. Loose lard was nominal at 29¾c. Tierces ranged from 32c. to 35c. per pound, same basis, as to quantity.

Tallow—Large users were reported bidding at current levels, but with production sold up through April, offers were scarce and trading quiet. Some business was transacted in drums less than carlots at premiums. Market was firm and reflected the strength in competing oils.

Fish Oils

Menhaden—Refined grades were in good demand. Supplies were light and firm at former levels.

Sardine — Stocks of refined were limited and closely held at former quotations. Buying interest was active.

Los Angeles.—Market tone firm, inquiry excellent. However, landings have been off, running far behind last year's total. Catch to February 21 was 217,613 tons, compared with 393,537 tons for the same period last year.

Sperm—Sales of three lots of 50 tons each of Japanese sperm head oil were reported at 25.01c., 25.10c. and 26.01c. per pound to Swift & Co., the successful bidder, by the U. S. Commercial Company, it was announced by the Reconstruction Finance Corporation.

Fatty Acids

Red Oil—Demand continued to exceed the supply and the market was strong, in sympathy with fats and greases. Production was sold up and in good request against contracts.

Stearic Acid—With production sold ahead and strong fats and grease market, firm conditions continued to prevail in this commodity. Supplies were limited with makers not offering except to regular customers. Prices were unchanged.

Chicago.—Fatty acids are giving a good account of themselves in the market.

Margarin Output Larger

Margarin production during December was appreciably larger than for the same period last year, according to statistics compiled by the Bureau of Internal Revenue:—

	Pounds—December 1946	1945
Production of uncolored oleomargarin	54,835,858	*41,101,982
Withdrawn tax-paid	55,807,998	41,388,957
Used in Colored Margarin		
Butter flavor	391	670
Citric acid	358	133
Corn oil	433,631	615,330
Cottonseed flakes	550	.....
Cottonseed oil	24,606,751	14,415,335
Cottonseed stearin	.....	656
Derivative of glycerin	88,383	84,142
Diacetyl	76	74
Estearin	.....	8,582
Lecithin	68,788	49,574
Milk	9,212,713	6,884,845
Monostearin	64,892	26,139
Neutral lard	303,204	233,426
Oleo oil	527,101	228,129
Oleo stearin	309,365	290,792
Oleo stock	72,400	13,610
Peanut oil	757,826	1,290,453
Salt	1,696,567	1,264,685
Soda, benzoate of	39,204	26,252
Soybean oil	17,356,515	16,331,106
Tallow	4,050	1,800
Vitamin concentrate	9,396	9,596
Total	55,752,161	41,777,339
Production of colored oleomargarin	4,935,507	†3,341,287
Withdrawn tax-paid	1,872,148	1,618,602
Used in Uncolored Margarin		
Butter flavor	25	27
Coconut oil‡	2,199,872	.....
Color	2,618	2,500
Corn oil	274	311
Cottonseed oil	672,039	626,717
Derivative of glycerin	4,731	4,776
Diacetyl	48	12
Estearin	.....	510
Lecithin	3,766	2,333
Milk	806,581	535,570
Monostearin	2,029	602
Neutral lard	21,715	112,566
Oleo oil	15,957	306,639
Peanut oil	1,200	12,940
Salt	164,462	104,454
Soda, benzoate of	2,904	1,820
Soybean oil	1,136,248	1,637,966
Vitamin concentrate	610	1,082
Total	5,035,073	3,350,825

* Of the amount produced, 6,277 pounds were reworked.

† Of the amount produced, 24 pounds were reworked.

‡ This oil used solely in oleomargarin manufactured for export by, or from, the United States.

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with offerings rather sparse. Inquiry fairly active. Ruling prices are:—Corn oil, double distilled, Chicago, 33c. per pound, tankcar; 33¾c., drums, carlots; coconut oil, double distilled, 31c. per pound, tankcar; 31½c., drums, carlots; cottonseed oil, double distilled, delivered, 33¾c. per pound, tankcar; 34½c., drums, carlots; settled cottonseed soap stock, 60-62 percent basis, 10c. to 12c. per pound; boiled down soap stock, 65 percent basis, 13c. to 15c.; cottonseed foots, 50 percent basis, 8c. per pound.

Cake and Meal

Cottonseed Meal — Improved export business has strengthened this market. Meal 41 percent was sold at $64. per ton, sacked f.o.b. Southwest and crushers have increased the price to $65, an advance of $2.50 per ton for the week. Sales were transacted at $63.75 per ton, sacked, Memphis, for March delivery.

Linseed Meal — Local market was unchanged, but steady at $76. per ton, bulk.

Minneapolis.—Supplies were small and while demand was not heavy the crushers managed to sell all that they wished for immediate and nearby shipment. Spot prices were around $80, bulk, Minneapolis, with premiums of 50c. per month being asked by some crushers. Instructions were in steady volume.

Shipments of linseed meal, in pounds, were as follows:—

	1946-47	1945-46
This week	7,440,000	8,460,000
Since Sept. 1.....	188,010,000	229,760,000

Peanut Meal—Export demand has increased and considerable quantity of 45 percent was sold at $62 and $62.50 per ton, sacked, Southeast an advance of $2 and $2.50 per ton. Demand was active for additional lots at these levels, crushers appear well sold up for March and early April. Early in the week business was done at $60 per ton, mills, Georgia for May-July shipment.

Soybean Meal—Active buying interest for export created a firmer market last week. Meal 41 percent was sold at $65.50 and $66.50 per ton, f.a.s. New Orleans. Mills in Southeast have advanced prices and asking $62 to $63 per ton, f.o.b.

Waxes

Beeswax—While business was quiet, the spot situation remains steady in sympathy with the higher cost of replacements. Prices for supplies on the spot were unchanged and well held.

Candelilla—Small lot trading was noted at current levels. Supplies on the spot were reported fairly liberal.

Carnauba—Withdrawals of offers for shipment from Brazil, combined with active trading here, which practically cleaned up most of the low price material resulted in a firmer tone and most sellers advanced quotations 2c. to 10c. per pound, according to grade. However, sizeable quantities were reported available in some quarters below prices generally asked. Quotations were more or less nominal. Chalky, No. 3, $1.33 to $1.35 per pound, N. C.; No. 2, $1.40 to $1.42, N. C.; No. 3, $1.35 to $1.37, refined, $1.50 to $1.52; yellow, No. 1, $1.80 to $1.82 per pound, on spot.

Japan—Demand was light and the market was unchanged and fairly steady.

Ouricury—Market continued quiet. Crude was quoted at 70c. to 74c. per pound and refined at 78c. to 82c. per pound, on the spot, depending upon quantity and seller.

Stein, Hall Elects Five New Officers

Robert Strasser has been elected a vice-president and a director of Stein, Hall & Co., importer and manufacturer of industrial raw materials, New York.

The company also elected three new assistant vice-presidents. They are George W. Brew, W. W. Strasser, jr., and Miss Sadie Feldman. Alexander M. Doremus was elected assistant treasurer.

Trade Briefs

A. H. Robbins, Inc., has been organized in New York to deal in paints and paint materials.

Morris Paper Mills, Chicago, has purchased the operating assets of the Imperial Box Company, Chicago.

Chemical industry in Greece operated at 41 percent of the 1939 rate in October, 1946, and had reached 50 percent in November.

Fatty Acids shortage in the Netherlands accounted for the fact that only ninety out of 152 soap factories there were in operation at the end of 1946.

Mathews Paint Company, Los Angeles, has obtained Civilian Production Administration approval for construction of a factory building in that city.

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1 Double drum dryer, Black and Clawson, 32" x 60" with accessories.

1 Buffalo double drum, 30" x 90", complete with accessories.

1 Devine vacuum shelf dryer, 60" x 160", double door, 20 shelves.

1 Proctor and Schwartz, steam heated, tray dryer, capacity—80 trays, 10" x 15", complete with accessories.

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1 Monel vacuum pan, 44" x 50", jacketed.

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1 Kiefer, piston type Visco filler.

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3—Stokes "R" single punch, maximum 2-½" dia.

4—Stokes "F" single punch, maximum ¾" dia.

1—Stokes "N" single punch, maximum ½" dia.

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3—5' x 33' J. P. Devine Rotary Vacuum Dryers.

2—Buffalo 32" x 90" Atmospheric DOUBLE DRUM DRYERS, M.D.

2—Buffalo 42" x 90" Atmospheric DOUBLE DRUM DRYERS, M.D.

2—Buffalo 32" x 72" Atmospheric DOUBLE DRUM DRYERS, M.D.

1—A. N. 4' dia. x 9' long atmospheric double drum dryer complete.

1—B. & C. 28" dia. x 60" face Atmospheric DOUBLE DRUM DRYER complete.

2—Direct heat ROTARY DRYERS; 5'x30', 6'x35'.

1—6'x35' Louisville Direct Heat single shell Rotary Dryer.

1—4'x20' Ruggles-Coles Indirect Heat Rotary Dryer.

1—4'x20' ROTARY KILN or ROTARY DRYER, Ruggles-Coles, geared-head, motor drive.

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2—DRY VACUUM PUMPS, Ingersoll-Rand, 1048 CFM, each 17"x 10", Duplex, with belt idlers for short drive. Used one week.

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1—Stokes TUBE CLOSER & CLIPPER.

2—Colton No. 3 TUBE CLOSER and CLIP FASTENER.

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2—Goslin-Birmingham EVAPORATORS, 6-effect, each evaporator having a total heating surface of 58,200 sq. ft. Electronite steel tubes; welded steel bodies. Each evaporator designed to evaporate 172,230 lbs. of water per hour from a feed of 586,000 lbs. per hour of soda-alumina solution. Complete with condensers, pumps, motors, controls, instruments, etc. Can be split in multiples.

1—6' x 50' Louisville DIRECT HEAT ROTARY DRYER with combustion chamber, exhauster, Buffalo air washer for dust elimination.

3—8' dia. x 46' ROTARY KILNS, DRYERS OR COOLERS, ⅜" shells, construction heavy enough for lengthening to 150 ft. Made by Allis Chalmers Mfg. Co., Milwaukee.

4—COAL PULVERIZERS, type E-35, made by Babcock & Wilcox Co. Complete with exhausters and 100 HP 3/60/440 volt motors, full starting and control equipment.

5—TWO-ROLL SAW TOOTH CRUSHERS, No. 10-EC, made by Sprout Waldron & Co., Muncy, Pa. 8/15 HP required —16"x16" feed opening.

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1—8'x8' OLIVER FILTER UNIT, complete.

1—Gedge Gray 600-lb. DRY POWDER SIFTER AND MIXER.

3—J. H. Day, Size D, 600-lb. DRY POWDER MIXERS, M.D.

2—450 gal. copper steam jacketed KETTLES.

1—ROTEX SCREEN, 40"x84".

1—W. P. MIXER, jacketed, 100-gal. sigma blades.

1—York 500 GPM HOMOGENIZER, bronze fitted, with 15 H.P. A.C. motor.

1—250 gal. Copper jack. agit. closed KETTLE OR VAC. STILL.

10—Copper & Aluminum KETTLES to 500 gal. cap.

2—Copper steam jacketed agitated KETTLES, 1—54" dia. x 42" deep, 300 gals.; 1—36" dia. x 31" deep, 70 gals.

1—J. H. Day auger POWDER FILLER. 2-Stokes No. 15.

2—Colton No. 3 TOGGLE Globule PRESSES, for making capsules.

4—250 gal. closed GLASS-LINED TANKS.

1—Pneumatic Scale six head CAPPING MACHINE.

Approximately 300 feet of STEEL BALL BEARING ROLLER CONVEYOR, from 17 to 32" widths.

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1—Johnson 24" x 24" cast iron FILTER PRESS, 24 chambers.

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VACUUM STILLS, KETTLES, TANKS

29—Steam Jack. KETTLES, 20, 25, 30, 50, 60 and 80 gal.

24—Closed STORAGE TANKS, rectangular shaped, 75"x34"x60", 700 gal. capacity.

24—Closed STORAGE TANKS, rectangular shaped, 50"x46"x72", 800 gal. capacity.

2—Closed Jack. agitated Kettles with coils; 1—1,200 gal., 1—900 gal.

1—1,200 gal. closed jack. Kettle or Vacuum Still.

3—Closed Jack. agitated Kettles or Vacuum Stills.

1—350 gal. closed jack. agit. Kettle.

9—250 GAL. NEW CLOSED HORIZONTAL STORAGE TANKS, OVAL SHAPED, APPROX. 40" AND 28" BY 61" LONG, 18" ROUND MANHOLE IN TOP, ⅛" PLATE.

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2—Buflovak 6' dia. Jacketed Pan Dryers or Crystallizers—300 gallon capacity—cast iron—jackets cast integral with shells.

5—Swenson-Walker Continuous Steel Jacketed Crystallizers, Mixers or Dryers, each made up of four 24"x26"x10' long sections with heavy spiral ribbon agitators. Each unit with worm gear speed reducer.

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2—Rotary Steam Tube Dryers, 6'x27'6", 6'x25'.
2—Buflovak Vacuum Drum Dryers, 24"x20", 48"x40".
5—Rotary Dryers, 6'x18', 6'x60', 7'x51'.

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4—Sharples No. 16 Stainless Steel Centrifuges.
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4—Stainless Steel Kettles, 80 gals.
1—Pneumatic Scale, 3 Spout Bottle Filler with Single Head Automatic Capper.
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1—Lehman 4 Roll High Speed Mill, 18"x32".
1—Fletcher 30" Suspended, Solid Basket, Centrifugal, 1,300 RPM.
1—Buflovak 6' dia. Vacuum Crystallizer.
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6—Stokes "T," 1¼".
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10—Stokes Rotary D4, 31/32".
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1—Day No. 10 Imperial Double Arm Jacketed Mixer.
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1—Hardinge 3'x8' and 3'x24" Conical Ball Mill.
75—36" x 36" Cast Iron Filter Press Plates and Frames.
1—Stokes No. 149 B High Vacuum Pump.
1—Gayco 3' Centrif. Air Separator.
1—Sturtevant 36" Rock Emery Mill.
1—Abbe Jar Mill, 20"x25", 1 H.P.
1—W. & P. 9 gal. Double Arm Mixer, 2 H.P. Motor.
1—Sharples No. 6 Centrifuge.
1—Day Rotex Sifter, 20" x 48".
4—Pfaudler Glass lined, jacketed, agitated Kettles, 350 & 400 gals.
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25—New Stainless Steel Tanks, 100 to 1,000 gals.
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U.S. Royalty Oil Bids Are Requested

Acting Secretary of the Interior Oscar L. Chapman has issued a second call for bids for the purchase of the government royalty oil from the Ketleman North Dome field, Calif. None of the bids received in response to a previous offer to sell oil on December 17, 1946, complied with minimum price provision of the specifications.

The royalty oil, amounting to about 60,000 barrels a month, is so offered that prospective purchasers may bid either on one-half or on the entire monthly volume, depending upon the needs of their refineries.

Further information may be obtained from the Director, Geological Survey, Federal Works Agency Building, Washington 25, D. C., or the Oil and Gas Supervisor, Room 533, U. S. Post Office and Courthouse, Los Angeles 12, Calif.

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4—Bantam pulverizers with explosion proof motors.
10—Jeffrey Traylor model 2A vibrators.
15—Jeffrey Traylor model 3 vibrators.
1—850 gallon stainless steel tank, 5 x 6'.
1—Stokes 43A granulator, pulley driven.
5—Pony mixers, 7½ to 15 gallons.
8—Powder mixers and sifters from 100 lbs. to 2,000 lbs.
1—Progressive 2 piston jar filler.

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STAINLESS STEEL TANKS, 50-2,000 GALLONS.
STAINLESS STEEL KETTLES, 30-200 GALLONS.
POWDER MIXERS, 1,000 LBS. AND 2,000 LBS.
½ HP. GEAR HEAD EXP. PROOF AGITATOR, SLOW SPEED.
½ HP. GEAR HEAD AGITATOR, SLOW SPEED.
¼ HP. GEAR HEAD AGITATOR, SLOW SPEED.
EXPLOSION PROOF ½ HP. HIGH SPEED AGITATOR.

2—Filter presses, 30 x 30 C. I. open delivery, 35—1" chambers.
1—Witteman laboratory double drum dryer, 12 x 12.
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4—Kramer, Fred Goat, Alsop cappers.
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1—Sameo 10 Stem Vacuum Filler.
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1—Pneumatic Scale 6 Head Automatic Capper.
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5—(New) 250 gal. closed Aluminum Tanks.
1—Kiefer No. 2 piston type Visco Filler.
2—Packomatic Powder Fillers and Sealers.
2—Day auger Powder Fillers.
1—Stokes 55 cu. ft. Jack. Drug Mixer.
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10—Portable Electric Mixers: ¼, ½, 1 hp.
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2—Dry Powder Mixers: 1,000 and 2,000 lbs.
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1—Hardinge, Silex-lined, Ball Mill, 8' x 30".
1—Hardinge, Steel Lined, Ball Mill, 5' x 22".
2—Louisville Rotary Steam Tube Dryers, 6' x 50'.
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2—Readco, Heavy Duty, Jacketed Mixers, 100 gallons.
11—Sharples Super Pressurite Centrifuges, 3 HP Explosion-Proof Motors.

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1—18-spout Karl Kiefer Rotary Filler.
10—New Sharples Oil Purifiers.
6—DeLaval Imo Pumps, 2" suc., 2" dia. (new).
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POSITIONS VACANT

Wanted: Chemist or chemical engineer as operating superintendent of chemical plant. Good opportunity for progressive man. Give references. Address OPD 455.

Manufacturing chemist—Fine chemicals and pharmaceutical products. Take charge of laboratory in Metropolitan area. Experience in development new products essential. Must have thorough knowledge organic chemistry, processing, and production. Submit complete details of education, experience, personal qualifications, and salary requirements. OPD 465.

Chemist, opportunity in expanding organization for chemist with wide experience for development and research on all types of synthetic resins. Write complete qualifications. All replies held in strict confidence. American Alkyd Industries, Carlstadt, N. J.

Wanted: experienced scientifically educated assistant superintendent for large soya bean oil mill. Salary, $4 500 per year to begin with; steady increases to be made if services warrant. Candidate must be of good character, energetic and well trained in expeller operations. Wire application and confirm by special delivery letter. OPD 498.

Wanted: Aggressive export man by old established export house for chemicals and pharmaceuticals. Good contacts with leading chemical manufacturers absolutely essential. Write details education, experience, references, salary. OPD 499.

Chemist, paint and varnish, to take complete charge of technical service laboratory of synthetic resin manufacturer. Wide experience necessary for full responsibility. Write complete qualifications. All replies held in strict confidence. American Alkyd Industries, Carlstadt, N. J.

Chemist, analytical, research, wanted to take charge of lab by established midwestern manufacturer. Must have Doctor or Master degree and experience in the insecticide disinfectant or soap and emulsion field. Excellent salary and future. Application will be treated confidential. Write to OPD 501.

POSITIONS VACANT

Assistant Manager 25 to 35 years, experienced in N. Y. Chemical Trade, preferably with some knowledge of export, wanted by well-known downtown chemical concern. Salary $75.00. Fine opportunity with excellent possibility for advancement according to ability. Write giving complete resume stating age, educational and commercial background, etc. Our employees know of this ad. All applications will be held in strict confidence. OPD 502.

Chemist, recent graduate of recognized paint and varnish school or university, no experience required. Synthetic resin research and development work. Write complete qualifications. All replies held in strict confidence. American Alkyd Industries, Carlstadt, N. J.

Salesman—salary, expenses, bonus. Must have car and be free to travel. Twenty-five to thirty years of age with at least two years sales experience. Nationally known water paint manufacturer. Eastern territory. OPD 504.

Chemical engineer wanted. Thoroughly experienced in paint and varnish manufacture to supervise production in progressive plant. This position offers unusual advancement and the opportunity of a lifetime for an ambitious young man. Replies treated in strict confidence. OPD 505.

Wanted: On a consulting or other, basis —chemist or chemical engineer experienced in producing methylamines commercially. OPD 507.

POSITIONS WANTED

Chemist-salesman. Age 37. Sixteen years national concerns experience. Research, development, production field and technical sales. Sanitary, household, automotive, chemical specialties. Synthetic waxes and compounds. Protective creams, emulsifiers, emulsions, wax polishes, synthetic coatings. Carbon paper, duplicating stencils and inks. Manhattan project. Capable directing laboratory and plant. Presently employed. Prefers growing organization where extremely diversified experience and unusual technical ability may be utilized fullest advantage. Numerous valuable raw material and sales contacts national companies. Exceptional record research, development and sales. Metropolitan area preferred, will consider other. Communication principals only in view of present status. OPD 468.

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Pharmaceutical, fine chemicals, executive thoroughly experienced in ethical field import, export. Highest type references. Available full or part time. OPD 494.

Advertising copywriter; experienced, good knowledge production. Ads appear in this magazine regularly. Age 34, college graduate, imaginative, likes to work hard. Available shortly. Excellent references from present employer. OPD 497.

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partment of Justice (Terre Haute, Ind.) invitation 31-2532, March 5.

Mercury, 300 pounds, Army Ordnance Department (Aberdeen Proving Ground, Md.) invitation 63, March 10.

Nicotine sulphate, 200 pounds, Department of Justice (Terre Haute, Ind.) invitation 31-2532, March 5.

Paint, enamel, 6,650 gallons, Army Quartermaster (New York City) invitation 119, March 5; 37,500 gallons, Army Ordnance Department (Metuchen, N. J.) invitation 124, March 13; 37,500 gallons, invitation 125, March 13; 25,000 gallons, invitation 126, March 13.

Penetrant inspection oil, 610 gallons, Army Air Forces (Dayton, Ohio) invitation 380, March 11.

Pyrethrum, dust, 1,500 pounds, Department of Justice (Terre Haute Ind.) invitation 31-2532, March 5.

Rock salt, 80,000 pounds, Treasury Department (Washington, D. C.) invitation 1A-50124-R, March 12.

Rotenone dust, 1,500 pounds, Department of Justice (Terre Haute, Ind.) invitation 31-2532, March 5.

Shortening, 10,000 pounds, Department of Justice (Lewisburg, Pa.) invitation 14-1930, March 17.

Soap, grit paste, 9,000 pounds; laundry, 66,000 pounds; scouring powder, 12,000 pounds; toilet, floating, 57,500 pounds; milled, 6,750 pounds; powdered, 10,000 pounds, Treasury Department (Washington, D. C.) invitation 3-W-50074-R, March 10; laundry, powdered, 2,670 pounds, Treasury Department (Washington, D. C.) invitation 3-W-47394-2-R, March 7.

Soda, laundry, 90,000 pounds, Treasury Department (Washington, D. C.) invitation 3-W-47583-3-R, March 7.

Sulfur dioxide, liquid, 30,000 pounds, Army Engineers (Washington 25, D. C.) invitation 60, March 6.

Trisodium phosphate, 35,000 pounds, Treasury Department (Washington, D. C.) invitation 3W-50076-R, March 7.

Turpentine, 1,400 gallons, Marine Corps (Philadelphia, Pa.) schedule 329, March 7; 204 gallons, Treasury Department (San Francisco, Calif.) invitation SF-3729-47, March 10.

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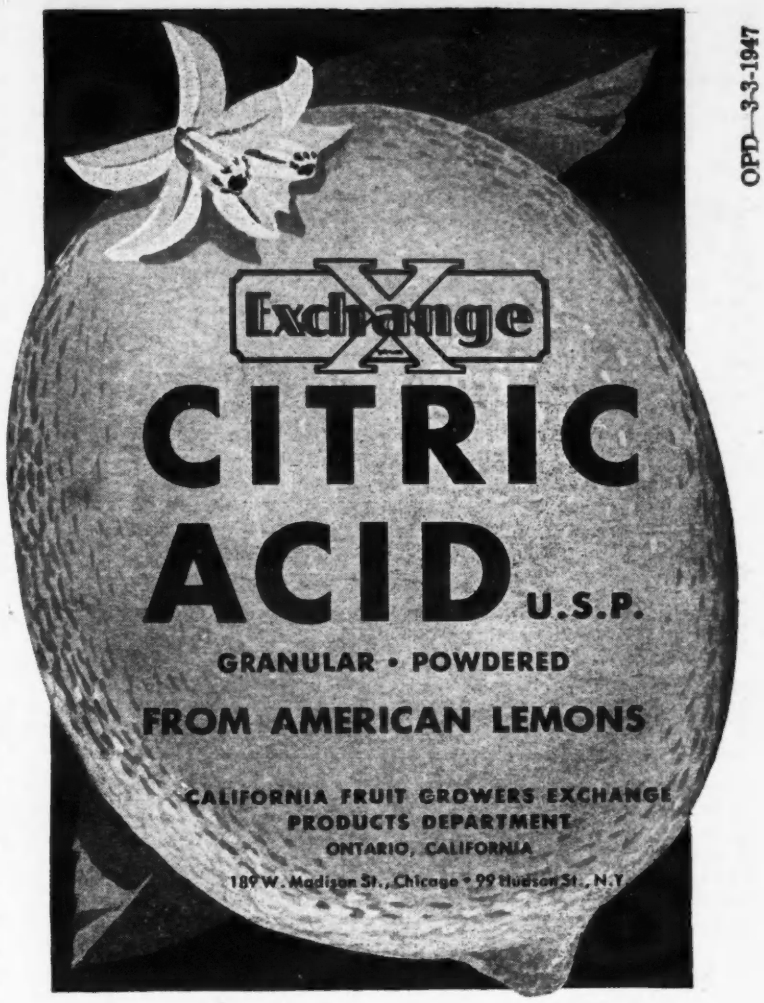

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